

**1954**

**CENSUS OF MANUFACTURES**

**VOLUME III**

**AREA STATISTICS**



236116











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# UNITED STATES Census of Manufactures 1954

## Volume III AREA STATISTICS

Industry Statistics for Geographic Divisions, States,  
Standard Metropolitan Areas, Counties and Cities

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Prepared under the supervision of  
MAXWELL R. CONKLIN  
Chief, Industry Division

UNITED STATES GOVERNMENT PRINTING OFFICE  
WASHINGTON





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This volume comprises the 1954 Census of Manufactures Area Bulletins, Series MC-101 thru MC-151, and related supplementary materials.

## SUGGESTED IDENTIFICATION

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## PREFACE

This is one of a series of three volumes presenting final results of the 1954 Census of Manufactures. The 1954 Census was a large-scale undertaking which depended upon significant contributions from a great number of private and public organizations and individuals. Essential to the success of the Census, of course, was the excellent cooperation of some 280,000 manufacturing establishments in completing the appropriate report forms.

Hundreds of trade associations and thousands of individual manufacturers--large, medium, and small--as well as Government agencies and other data users provided valuable counsel in determining the types of information which would be of maximum usefulness. Among the Government agencies, the Bureau of the Budget, Business and Defense Services Administration, Bureau of Labor Statistics, Bureau of Mines, Department of Agriculture, the Office of Business Economics, the Board of Governors of the Federal Reserve System, and the Tariff Commission made especially important contributions to the 1954 Census. Also noteworthy was the assistance of the Advisory Council on Federal Reports in advising upon the feasibility of collecting various types of data and in participating in efforts aimed at minimizing the reporting burden. Support by the United States Chamber of Commerce, the National Association of Manufacturers, and other business groups, and timely publicity given to the Manufactures Census by the press, television, and radio aided materially in the collection of the reports.

The primary responsibility for the 1954 Census of Manufactures was centered in the Industry Division of the Census Bureau. Other divisions of the Bureau, particularly the Economic Operations Division, Machine Tabulation Division, Field Division, Administrative Service Division, and the Electronic Systems Branch, also had important functions in the Census.

The Manufactures Census was taken under the supervision of Maxwell R. Conklin, Chief of the Industry Division. The individuals listed in the organization structure of the Division shown on the opposite page carried the principal responsibility for the Census within the Division. Other Industry Division staff personnel also had important responsibilities in various phases of the Census. Their individual and collective contributions were essential to the completion of the census and of greater significance than would ordinarily be inferred from the mere alphabetic listing of their names which follows: Daniel Arrill, John J. Bartosiewicz, Paul F. Berard, Martin Bloom, Evelyn W. Colburn, Alice K. Cullen, Angela R. Daly, Jerome Deitch, M. Audrey Dickerson, Robert J. Dressel, David M. Fishbein, Edward D. Gruen, Arthur W. Horowitz, Shirley Kallek, Alvin S. Lubeck, Martin L. Marimont, Reese R. Morgan, Richard J. Rice, Albert A. Schulman, Charles H. Wittman, and John J. Zirkle, Jr. These individuals merited recognition for their participation in the development of the Census inquiries, the preparation of the report forms and instructions, the design of specifications for editing and coding the returns and the preparation and review of final text and tables. In a broader sense, special mention is due the entire staff of the Industry Division and a large number of people in other divisions of the Bureau during the collection, processing, tabulation, and publication of data from the 1954 Census of Manufactures.

Processing of the 1954 Census of Manufactures reports was performed by the Economic Operations Division under the supervision of Marion D. Bingham, Chief, Irving Weiss, Assistant Chief for Processing, and Sol Dolleck, Assistant Chief for Systems Development. Milton D. Lieberman, Chief of the Manufactures Census Branch and Sol Dolleck who succeeded him in that position on October 24, 1955 were assisted by Herman Hess, Walter A. Hines, Mary H. Johnson, Joseph M. Schubert, and Donald E. Young. Samuel Schweid contributed to certain procedural aspects of the Census and Robert Hansen to the Univac programming of the editing and tabulation phases.

Donald K. Heiser, Chief of the Electronic Systems Branch, and Rudolph M. Micoly, Chief of Operations for the Branch, were responsible for the utilization of electronic computer and accompanying high-speed printer equipment in the Census.

C. F. Van Aken was Chief of the Machine Tabulation Division and, in that division, Catherine M. Neafsey, Chief, Economic Section, and Emil Gorgovits were responsible for the machine tabulation procedures used in the Manufactures Census.

In the Field Division, Jack B. Robertson, then Chief of Division, and Ivan G. Munro, Assistant Chief, were responsible for directing the field work for the Census of Manufactures. George Klink, Branch Chief, supervised the collection of reports from Eastern sawmills that were not included in the Census mail canvass.

Julius Shiskin, Chief Economic Statistician in the Office of the Assistant Director for Statistical Standards, as well as Harold T. Goldstein and Irving Rottenberg of that office, contributed to the coordination of the Manufactures Census with the Censuses of Business and Mineral Industries and to several phases of the planning and processing of the Censuses. In addition, Mr. Goldstein assisted in the planning and preparation of the textual material for the industry reports.

Robert H. Brooks, Chief of the Graphics Branch of the Administrative Service Division, was responsible for preparing the Census of Manufactures publications for reproduction. Elma D. Beynon and Ingrid L. Millison of the Statistical Reports Division reviewed text material and table forms, and assisted on publication problems.



## 1954 CENSUS OF MANUFACTURES FINAL REPORTS

### Volume I: SUMMARY STATISTICS

Chapter	Chapter
I. General Summary	VII. Horsepower of Power Equipment
II. Employment and Payrolls	VIII. Fuels and Electric Energy Consumed
III. Size of Establishments	IX. Industrial Water Use
IV. Type of Organization	X. Selected Materials Consumed
V. Manufacturers' Inventories	XI. Industry Specialization of Establishments
VI. Expenditures for Plant and Equipment	XII. Selected Metalworking Operations
SPECIAL REPORT: Manufacturing Activity in Government Establishments. The special report also appears in Volumes II and III.	
Chapters I–XII also issued as separate reports in Bulletin Series MC–200.	

### Volume II: INDUSTRY STATISTICS

Separate chapters for each of 81 groups of related industries. These chapters include, for approximately 460 individual industries, statistics on employment and payrolls, inventories, capital expenditures, fuels, electric energy, and power equipment as well as quantities and values of

individual products made and materials used. Also included in this volume is a general summary chapter and separate summary chapters for each of the 20 major industry groups. (The 81 industry group chapters were issued as separate reports in Bulletin Series MC–20A–MC–39E.)

### Volume III: AREA STATISTICS

Separate chapters for each State, the District of Columbia, and Alaska and Hawaii. Statistics for standard metropolitan areas, counties and cities, and States by industry with cross classification by industry group for large standard metropolitan areas and principal counties. Also

included in this volume is a summary chapter for each of the nine geographic divisions (The State chapters were issued as separate reports in Bulletin Series MC–100.)

## 1954 CENSUS OF MINERAL INDUSTRIES FINAL REPORTS

Volume I: Summary and Industry Statistics

Volume II: Area Statistics

## 1954 CENSUS OF BUSINESS FINAL REPORTS

Volume I: Retail Trade—Summary Statistics

Volume IV: Wholesale Trade—Area Statistics

Volume II: Retail Trade—Area Statistics

Volume V: Selected Service Trades—Summary Statistics

Volume III: Wholesale Trade—Summary Statistics, and Public Warehouses

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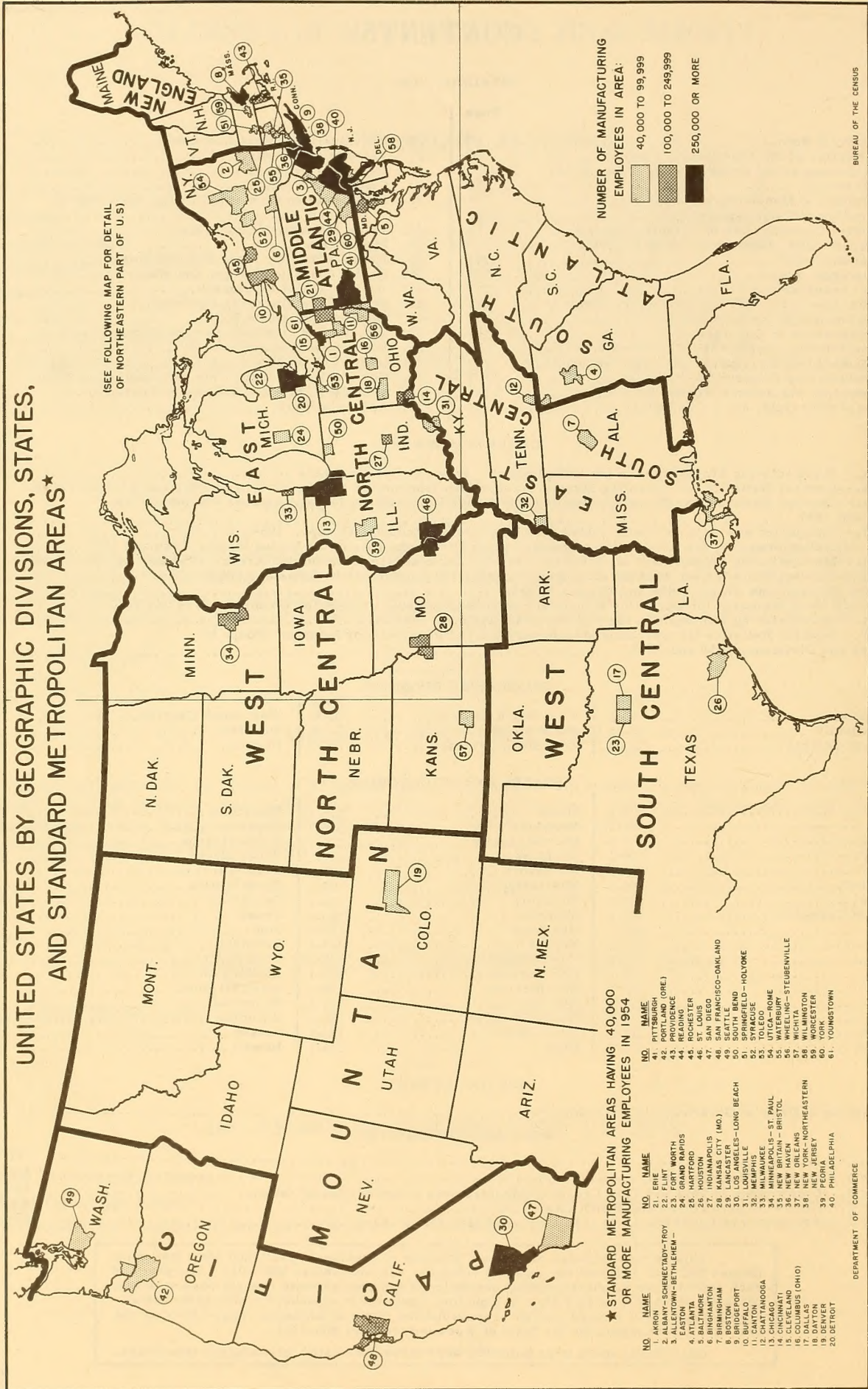
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This volume includes preprinted portions of previously published State Bulletins (Series MC-101-151) and the general summary bulletin (Series MC-201). The pages of each report were numbered independently; page numbers of State reports consist of two parts, the first part being a State designation numbered in alphabetic order of the States. Thus, page 101-1 is page 1 of the report for the State of Alabama; page 149-6 is the last page of the report for the State of Wyoming (bulletin MC-149).

Corrections made after bulletins were issued are listed following the appendices.



# UNITED STATES BY GEOGRAPHIC DIVISIONS, STATES, AND STANDARD METROPOLITAN AREAS\*

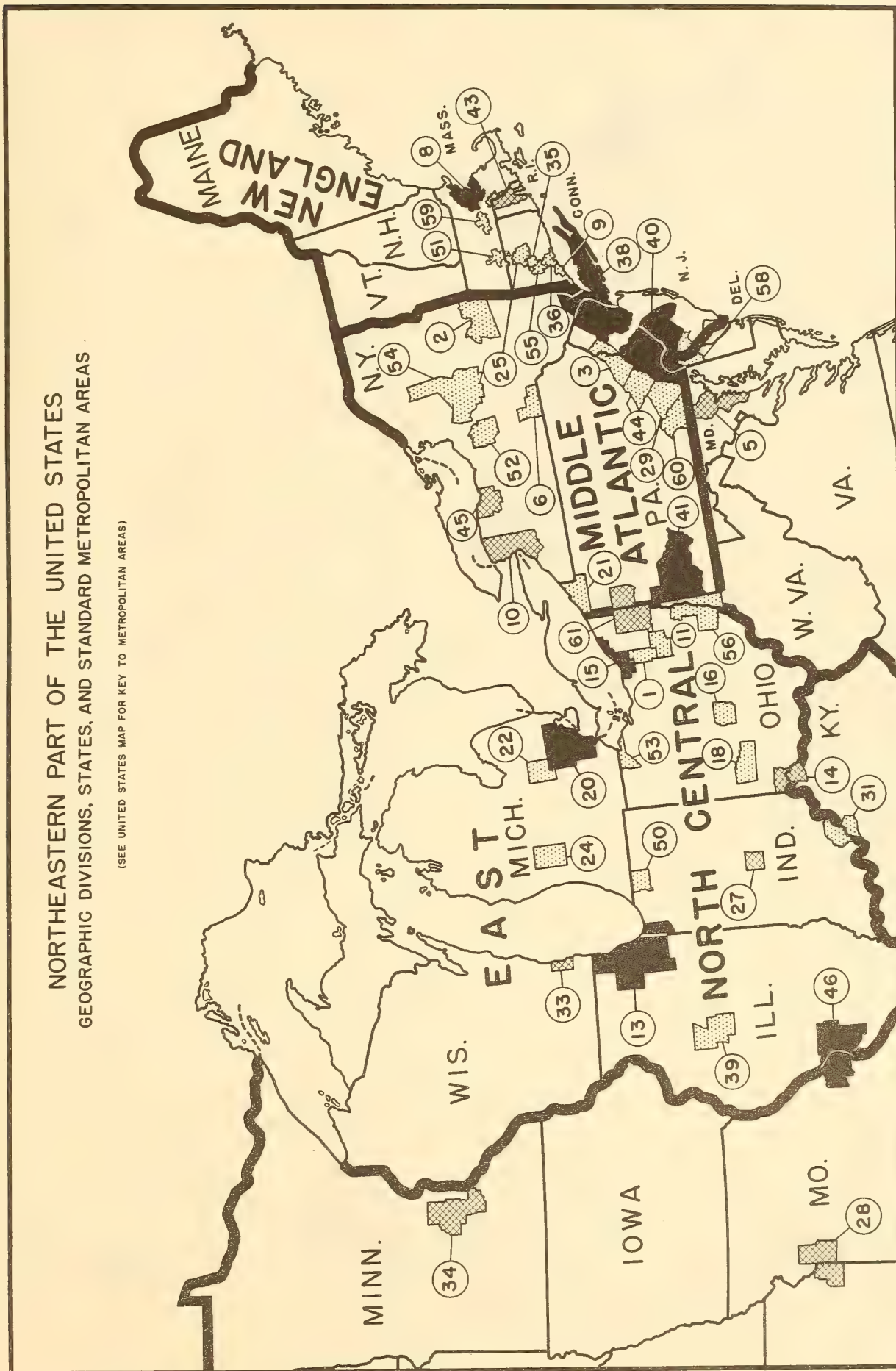


\* STANDARD METROPOLITAN AREAS HAVING 40,000 OR MORE MANUFACTURING EMPLOYEES IN 1954

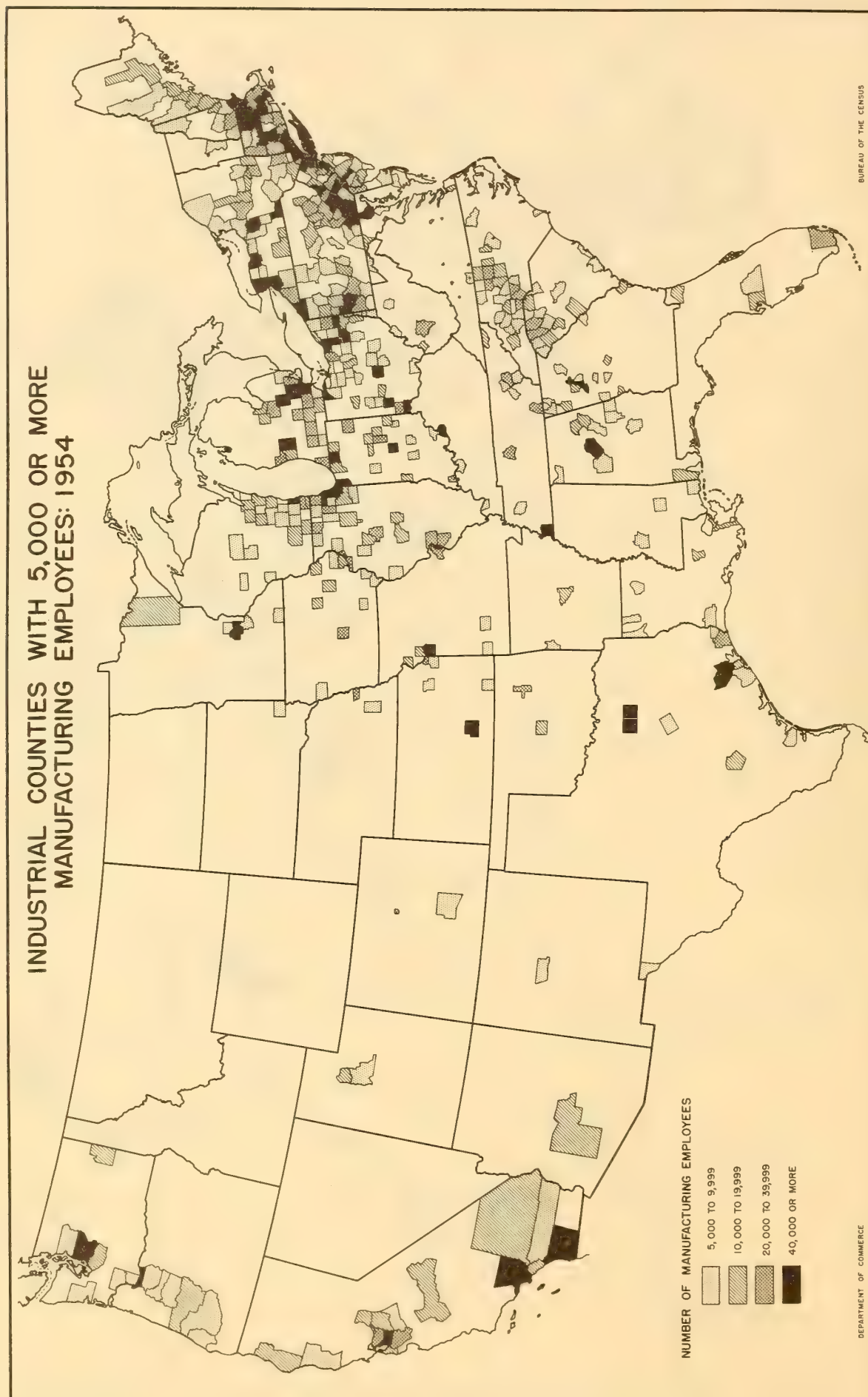
NO.	NAME	NO.	NAME	NO.	NAME
1	ALBANY-SCHENECTADY-TROY	41	INDIANAPOLIS	51	SPRINGFIELD-HOLYOKE
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7	BIRMINGHAM	47	SAN DIEGO	57	WILMINGTON
8	BOSTON	48	SAN FRANCISCO-OAKLAND	58	WORCESTER
9	BOSTON	49	SARASOTA	59	YOUNGSTOWN
10	BUFFALO	50	SOUTH BEND	60	PHILADELPHIA
11	CANTON	51	SPRINGFIELD-HOLYOKE	61	YOUNGSTOWN
12	CHICAGO	52	SYRACUSE		
13	CHICAGO	53	UTICA-ROME		
14	CINCINNATI	54	WATERBURY		
15	CLEVELAND	55	WHEELING-STUBENVILLE		
16	DALLAS	56	NEW HAVEN		
17	DALLAS	57	WILMINGTON		
18	DAYTON	58	WORCESTER		
19	DENVER	59	YOUNGSTOWN		
20	DETROIT	60	PHILADELPHIA		
21	DETROIT	61	YOUNGSTOWN		
22	FLINT				
23	FORT WORTH				
24	GRAND RAPIDS				
25	HARTFORD				
26	HOUSTON				
27	INDIANAPOLIS				
28	KANSAS CITY (MO.)				
29	LOANCASTER				
30	LOUISVILLE				
31	LOUISVILLE				
32	MEMPHIS				
33	MINNEAPOLIS				
34	MINNEAPOLIS				
35	NEW BRITAIN-BRISTOL				
36	NEW HAVEN				
37	NEW YORK-NORTHEASTERN				
38	NEW YORK-NORTHEASTERN				
39	PEORIA				
40	PHILADELPHIA				

# NORTHEASTERN PART OF THE UNITED STATES GEOGRAPHIC DIVISIONS, STATES, AND STANDARD METROPOLITAN AREAS

(SEE UNITED STATES MAP FOR KEY TO METROPOLITAN AREAS)







# INTRODUCTION

## OUTLINE

1. Historical Note
2. Publication of the 1954 Census Results
3. Significance of the Manufacturing Sector of the Economy
4. Definition of Manufacturing Industries
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33. Confidentiality of Data for Individual Companies
34. Indexes of Physical Volume of Production
35. Abbreviations

### 1. Historical Note

The 1954 Census of Manufactures is the twenty-fifth such census of the United States. The first Census of Manufactures covered 1809. A census was taken at 10-year intervals thereafter to 1899 (with the exception of 1829). It was conducted at 5-year intervals from 1904 through 1919, and every other year from 1921 through 1939. The census was suspended during World War II, but was resumed in 1947. Legislation enacted in 1948 provided for a Census of Manufactures every 5 years, with annual sample surveys authorized for interim years. Such Annual Surveys of Manufactures were taken covering the years 1949 through 1953.

The 1954 Census, originally scheduled for 1953, is the first complete one since 1947, the next one is scheduled for 1958. For 1954, it was conducted jointly with the Censuses of Business (Wholesale, Retail, and Services) and Mineral Industries, covering the continental United States, Alaska, and Hawaii. Separate Censuses of Manufactures and Business for 1954 were also conducted in Puerto Rico jointly with the Commonwealth Government.

### 2. Publication of the 1954 Census Results

Results of the 1954 Census of Manufactures are published in three volumes: Volume I, Summary Statistics, shows comparative statistics for industries, States, and principal metropolitan areas for the more important measures of the activity of manufacturing establishments—employment, payrolls, inventories, capital expenditures, value added by manufacture, important materials consumed, etc.; Volume II, Industry Statistics, is a consolidation of reports for the 81 groups of industries and shows detailed information on individual industries and products. Volume III, Area Statistics, shows for each State and its important metropolitan areas and industrial counties, general statistics (number of establishments, number of employees, payrolls, value added by manufacture, and capital expenditures) for each of the industries of consequence in that State or in its principal metropolitan areas. Totals for all manufacturing are shown for all counties and for cities of 10,000 inhabitants or more. Supplemental reports such as that covering the Index of the Physical Volume of Production are also published.

### 3. Significance of the Manufacturing Sector of the Economy

Manufacturing is the largest of the industrial sectors in the economy. Table A below shows that manufacturing accounted for approximately 30 percent of the total national income. The next largest sector, wholesale and retail trade, contributed only slightly in excess of 17 percent.

Table B shows the relative importance of the major industry groups within manufacturing based on value added by manufacture. It should be noted that the concept of value added by manufacture which is used by the Bureau of the Census is different from the national income measure used by the Office of Business Economics. See section 23 of this Introduction: Value added by Manufacture, for discussion of the two concepts.

Table A.—NATIONAL INCOME BY PRODUCING SECTOR, 1954

(In millions of dollars)

Industry group	National income	Percent of total
All industries, total.....	298,335	100
Manufacturing.....	89,555	30
Agriculture, forestry and fisheries.....	16,688	6
Mining.....	5,021	2
Contract construction.....	15,466	5
Wholesale and retail trade.....	50,754	17
Finance, insurance and real estate.....	28,103	9
Transportation.....	14,605	5
Communications and public utilities.....	10,693	3
Services.....	29,817	10
Government and government enterprises...	35,803	12
Rest of the world.....	1,830	1

SOURCE: Department of Commerce, Survey of Current Business, July 1956.



Table B--VALUE ADDED BY MANUFACTURE BY MAJOR INDUSTRY GROUP, 1954  
(In millions of dollars)

Code	Industry group	Value added by manufacture	Percent of total
	TOTAL.....	116,913	100
20	Food and kindred products.....	13,400	11
21	Tobacco manufactures.....	988	1
22	Textile mill products.....	4,749	4
23	Apparel and related products...	5,147	4
24	Lumber and products, except furniture.....	3,188	3
25	Furniture and fixtures.....	1,966	2
26	Paper and allied products.....	4,581	4
27	Printing and publishing industries.....	6,265	5
28	Chemicals and allied products..	9,444	8
29	Petroleum and coal products...	2,209	2
30	Rubber products.....	1,904	2
31	Leather and leather products...	1,637	1
32	Stone, clay and glass products.	3,822	3
33	Primary metal industries.....	9,747	8
34	Fabricated metal products.....	7,596	7
35	Machinery (except electrical)..	12,339	11
36	Electrical machinery.....	7,403	6
37	Transportation equipment.....	13,926	12
38	Instruments and related products.....	2,129	2
39	Miscellaneous manufactures.....	4,473	4
19	Ordnance and accessories.....		

#### 4. Definition of Manufacturing Industries

The 1954 Census of Manufactures covers all establishments primarily engaged in manufacturing as defined in the Standard Industrial Classification Manual, Volume I, Manufacturing Industries, dated November 1945, as amended by the Bureau of the Budget. This system of classification is in general use among Federal agencies. The Manual defines manufacturing as the mechanical or chemical transformation of inorganic or organic substances into new products. The assembly of component parts of products is also considered to be manufacturing if the resulting product is neither a structure nor other fixed improvement. These activities are usually carried on in plants, factories, or mills, which characteristically use power-driven machines and materials-handling equipment.

Manufacturing production is usually carried on for the wholesale market, for transfer to other plants of the same company, or to the order of industrial users or government departments rather than for direct sale to the household consumer. Some manufacturers in a few industries sell chiefly at retail to household consumers through the mail, through house-to-house routes, or through salesmen. Some activities of a service nature (enameling, engraving, etc.) are included in manufacturing when performed primarily for the trade but are considered nonmanufacturing when performed primarily to the order of the household consumer.

The Standard Industrial Classification was developed on the basis of the following principles:

(1) The classification should conform to the existing structure of American industry;

(2) The reporting units to be classified are establishments rather than legal entities or companies; each establishment is classified according to its major activity;

(3) To be recognized as an industry, each group of establishments must have significance from the standpoint of value of sales, employment and other important economic measures. In addition, it is essential that each industry comprise a group of establishments whose output of the products defining the industry (primary products) accounts for a relatively high proportion of the total shipments of the industry as well as of the total shipments of these primary products by establishments in all manufacturing industries.

The Standard Industrial Classification Manual, issued November 1945, was amended slightly by the Bureau of the Budget prior to the 1954 Census. In classifying establishments by industry in the 1954 Census of Manufactures, the Census Bureau followed the amended version of the Standard Industrial Classification. The amendments to the 1945 edition of the standard classification are described in detail in Appendix B.

The following types of activities, while having many of the characteristics usually found in manufacturing, are defined as nonmanufacturing by the Standard Industrial Classification and, therefore, are excluded from the Census of Manufactures:

(a) Processing on farms when the raw materials are grown on the farm and the manufacturing activities (poultry dressing, milk and butter production, logging) are on a small scale without extensive use of paid labor. Also custom milling, cotton ginning, and similar activities.

(b) Mineral preparation such as the crushing, screening and concentrating of ores. However, mining performed as a secondary activity in conjunction with manufacturing is included in the Census of Manufactures; for example, stone and clay mining at cement, lime and clay products plants.

(c) Custom work to the individual order of household consumers. Examples are custom tailoring, woodworking, lettering on monuments, setting of diamonds and the making of orthopedic appliances.

(d) Repair and other service activities, except specified services performed "for the trade." Machine shops engaged exclusively or almost exclusively in repair work and repair shops of railroads are also excluded.

(e) Production of coke for own use by establishments owned by public utility companies.

Consistent with the Standard Industrial Classification, the Manufactures Census does not cover manufacturing when performed (1) by retail establishments which sell most of their products on the premises directly to household consumers, e.g., retail bakeries, ice cream stores, and feed stores, (2) by contractors at the site of construction, e.g., production of paving mixtures (3) by educational, eleemosynary and penal institutions.

It is not unusual for manufacturing establishments to engage also in such nonmanufacturing activities as repair work, merchandising of products without further processing, and installation work. Ordinarily, such nonmanufacturing receipts are small in relation to the manufacturing activities and, in such instances, it is not difficult to determine that the establishments should be included in the manufacturers area. However, where these nonmanufacturing activities account for a significant proportion of total receipts of an establishment, the allocation of that establishment to the appropriate major economic sector is more difficult.

In the 1954 Economic Censuses, an establishment engaged in a combination of manufacturing and merchandising was assigned either to the manufacturing or the trade industries depending on which of these activities was estimated to account for the larger share of its "value added" or "income produced." This criterion, even though based on an approximation, was considered preferable to reported dollar volume of receipts from each type of activity, since manufacturing requires considerably more man-hours, salaries and wages, and other inputs per dollar of receipts than either wholesaling or retailing. In the case of establishments engaged in manufacturing and also in mining, repair work, installation or other nonmanufacturing services, dollar receipts were used as a reasonably valid basis of classification because these activities require substantially comparable inputs per dollar of receipts.

The concurrence of the Censuses of Manufactures, Business and Mineral Industries in the same year provided a more complete universe from which to canvass and classify establishments than did the previous Census of Manufactures which was taken a year before the 1948 Census of Business. Establishments engaged in a combination of manufacturing and nonmanufacturing activities or factories incorrectly mailed a Business or Mineral



Industries report form (and vice versa) were included in the appropriate Census on the basis of the nature of business description and other information, such as products made or resold or services performed called for on the Census report forms. However, the resulting improvement in the coverage of manufacturing between the two Census years was generally limited to small plants in certain industries and did not appreciably affect comparability of data for manufacturing as a whole or for the great majority of industries. For those industries where there is a problem of comparability for this reason, e.g., poultry dressing, tobacco stemming and redrying, the descriptive text for the industry affected discusses the nature of the change.

Data were obtained on the manufacturing activities during 1954 of establishments owned and operated by the Federal Government (military arsenals, Navy yards, etc.) and of Federal and State prisons for the purpose of presenting complete information on manufacturing operations in the United States. Statistics on the employment, value added by manufacture and products manufactured by these establishments are shown in a separate chapter in each Manufactures Volume. Such data are not included elsewhere in the Census tables and, thus, are not represented in any of the individual industry or industry group totals appearing in the Volumes. Information on Government-owned, privately-operated establishments is included throughout the Census tables in the appropriate 4-digit industry on the same basis as privately-owned and operated plants.

### 5. Definition of Establishment

The Census of Manufactures is conducted on an establishment basis. That is, a company operating establishments at more than one location is required to submit a separate report for each location; also, companies engaged in distinctly different lines of activity at one location are required to submit separate reports if the plant records permit such a separation and if the activities are substantial in size. Census tabulations of establishment reports, therefore, differ substantially from those prepared on a company basis, i.e., from consolidated reports which not only combine manufacturing activities at different locations (thereby eliminating interplant transfers) but also include the nonmanufacturing activity of the company. Census figures will also differ to some extent from other tabulations based on establishment reports where the definition of an establishment as to location and line of activity is not applied in the same way.

The requirement that distinct lines of activity at the same location be separately reported was selectively applied. Consolidated activities at a single location are of two general types: (1) Where vertically integrated processes are present; that is, where basic or intermediate materials are produced for use in manufacturing final products of the plant. These are typified by the integrated paper mill which produces pulp, converts that pulp into paper and frequently goes on to make a variety of converted paper products; the steel mill which is integrated with a blast furnace and coke oven; and the operation of foundries, forge shops, etc., by plants producing machinery or other metal products. Typically, separate reports were obtained in the 1954 Census for the pulp-paper-paper converting or blast furnace-coke-steel mill types of integration. Much less commonly, and in fact only when it was more convenient for the company to report that way, was a separate census return submitted for integrated operations of the captive foundry or forge shop type. There are certain uncommon types of vertical integration such as tin can plants at canneries and steel mills at metalworking plants, which were usually separately reported. (2) Where the establishment produces and ships significant amounts of products classified in different S.I.C. industries. In widely varying degrees this product overlap exists in many manufacturing establishments. Generally, the amounts involved are not of serious proportion and, even if feasible, the filing of separate reports would not be warranted as a practical matter. However, there are a number of plant locations at which 100 or more employees are engaged in each of two or more distinct lines of manufacturing as defined in the Standard Industrial Classification. The Census Bureau requested separate reports in such instances in the 1954 Census, pointing out to the respondent that a limited amount of proration or esti-

mating was acceptable in the preparation of such reports. For the most part, the effort was successful, particularly in the case of very large operations where failure to "split out" the different activities would have significantly distorted the relationship of the industry and product statistics. Not infrequently, though, the two groups of products were made on the same production lines, by many of the same employees, and could not be distinguished sufficiently in the companies' records to provide establishment-type reporting. The extent to which such separations could not be achieved combined with the overlap contributed by the smaller plants (those with less than 100 employees) is shown for each industry in Tables 5A and 5B of the appropriate chapter of Volume II, Industry Statistics. It is planned that the 1954 Census of Manufactures will be the last one in which separate reports will be required for the several major activities at integrated paper mills and steel mills, although it is expected that selected key items of information will be obtained separately for the major types of activities.

For the 1954 Census, as for earlier censuses, a minimum size limit was set for establishments to be included. In both the 1954 and 1947 Censuses, reports were required from all establishments employing one or more persons at any time during the census year, whereas in prior censuses, establishments with less than \$5,000 value of products were excluded. The change in the minimum size limit in 1947 does not appreciably affect the historical comparability of the Census figures except for data on number of establishments for a few industries.

### 6. Industry Classification of Establishments

Each of the establishments covered in the census was classified in one of approximately 450 manufacturing industries in accordance with the industry definitions embodied in the Standard Industrial Classification system (see Appendix A). Under this system of classification, an industry is generally defined as a group of establishments producing a single product or a more or less closely related group of products. The product groupings from which industry classifications are derived are based on such considerations as whether they are typically produced by the same establishment, similarity of manufacturing processes, types of material used, types of customers, and the like. The group of products assigned to an industry is said to be "primary" to that industry. Accordingly, an establishment is classified in a particular industry if its production of the primary products of that industry exceeds in value, its production of products of any other single industry. In a few instances, however, the industry classification of an establishment is determined not only by the products it makes but also by the processes employed or materials used in making those products.

While some establishments produce only the primary products of the industry in which they are classified, it rarely happens that all the establishments in an industry specialize to this extent. The general statistics (employment, inventories, value added by manufacture, etc.) shown for an industry, therefore, reflect not only the primary activities of the establishments in that industry but also their activities of a secondary nature. For this reason, in relating industry statistics to product statistics showing shipments by all industries of the primary products of that industry, the composition of the industry's output as shown in Tables 5A and 5B of the Industry Volume should be considered. The extent to which industry and product statistics can be related is measured by two ratios which are available in Table 5A of the Industry Volume. The first of these ratios, called the primary product specialization ratio, describes the proportion of product shipments (both primary and secondary) of the industry represented by primary products. The second, defined as the coverage ratio, is the proportion of primary products shipped by the industry to total shipments of such products by all manufacturing industries.

The primary product specialization ratio measures the homogeneity of each 4-digit industry only in terms of the final products of its establishments. The industry may lack high homogeneity, and many of them do, in other equally or more important characteristics such as processes used, materials consumed, etc. There is substantial variation in types of produc-



tion processes and in the degree of integration of those processes for individual plants within separate S.I.C. industries throughout the classification structure. This may occur because of the variety of products falling into a single industry classification, e.g., industries such as photographic equipment, scientific instruments and toys. However, even where the primary products of the industry are reasonably narrowly defined, the processes carried on by particular establishments in the industry may be markedly different.

There are many examples of diversity of manufacturing operations among establishments in an industry. In the Woolen and Worsted Fabrics Industry, some of the plants perform all the operations from processing the raw fiber to the finishing of the fabric whereas other plants in the same industry limit their activities to weaving the fabric. In the metal fabricating industries, plants may operate a wide variety of metal processing departments (e.g., foundry, machine shop, plate fabrication) or may be solely engaged in the assembly of component parts purchased from other manufacturers. For example, in the refrigeration industry (Industry 3585) there are instances of almost complete integration in which the production of the compressor and condensing unit, electric motor and even the stamping of the case as well as the final assembly are all carried on at one plant. There are also strictly assembly plants and plants with various combinations of particular processes to be found in that industry.

These differences among plants in the same industry have a profound effect on the relationship between labor costs and material costs. As a consequence, in many industries there is a wide dispersion among individual establishments in such important ratios as payrolls to shipments and material costs to shipments. The 1954 Census does not provide any across-the-board measure of this diversity as it does for product mix through the specialization ratio.

For many industries, separate statistics are given on the manufacture of intermediate products for use within the same plant. This practice has been followed for many earlier censuses in the pulp and paper, textile fiber, yarn and fabric and certain chemical industries. In the 1947 and 1954 Censuses, the approach was expanded to include captive castings, motor and engine facilities and for the entire metalworking area an inquiry was added to show captive metal fabricating facilities such as stamping facilities, machine shops, and the like.

The texts in the Industry Volume describe the nature of variations in types of processes used and the production of intermediate parts and components in the same plant for those industries where such situations are especially significant. Differences in the integration of production processes, types of operations and the like should be taken into consideration together with the specialization and coverage ratios when using the industry statistics (employment, value added, materials used, etc.) and in relating these figures to the product data.

## 7. Comparability of Data with the 1947 Census of Manufactures

The 1947 figures include revisions of previously published 1947 Census totals and are comparable with the 1954 data (except as specifically noted in the tables or accompanying text.)

Two important changes were made in the scope of the 1954 Census of Manufactures which affected the comparability of State and selected industry statistics with the data from the 1947 Census of Manufactures.

(a) In the 1954 Census of Manufactures, the processing of milk (pasteurizing, homogenizing, vitaminizing, bottling) was defined as a manufacturing activity. For the 1947 Census establishments shipping any fluid milk were excluded from manufacturing industries regardless of their primary activity, in accordance with the 1945 edition of the Standard Industrial Classification Manual. Furthermore, in 1954 establishments processing and distributing fluid milk and other dairy products were classified on the basis of the primary product or activity of the establishment.

(b) In the 1947 Census of Manufactures, Logging Camps and Contractors (S.I.C. 2411) were excluded. In addition, only Sawmills and Planing Mills (S.I.C. 2421) that cut more than 200,000

board feet of lumber were included. On the other hand, for 1954, all loggers and sawmills with one or more paid employees as reported to the Bureau of the Old-Age and Survivors Insurance were included in the Census. In 1954, the loggers accounted for more than 11 percent of the national employment in Major Industry Group 24, Lumber and Wood Products. It is estimated that sawmills and planing mills producing less than 200,000 board feet accounted for less than 2 percent of national employment for the group.

The above changes have been noted in the appropriate tables and where significant, data are provided on a comparable basis for the two census years.

## 8. Geographic Areas

(a) Census divisions and regions.—In order to present census data at a level intermediate between the United States and the individual 48 States, the Census Bureau has used regional groupings for over a century. Since the 1909 Census of Manufactures, the present nine geographic divisions have been used. Beginning with the 1939 Census, the nine divisions were grouped also into four major geographic regions; Northeast, South, North Central and West.

Not only are these groupings convenient for the summary presentation of census data below the U. S. level, but they are essential to presenting maximum geographic information for those individual industries in which application of the Census disclosure law precludes the publication of individual State data. (See section on "Confidentiality of Data for Individual Companies" for a discussion of the disclosure rules.) The relative importance of manufacturing in 1954 among the several States and regions is shown in Table C.

(b) Standard metropolitan areas.—In addition to the legally constituted geographic units—States, counties, and cities—"All manufacturing" totals have been tabulated for the approximately 170 standard metropolitan areas, while industry group (3-digit) statistics have been tabulated for those areas reporting at least 40,000 manufacturing employees either in 1947 or 1954. (Industry group statistics for such areas are presented in Area Volume Table 5. There are 62 areas meeting this employment criterion.)

Except in New England, a Standard Metropolitan Area is a whole county or group of contiguous counties which contain a city (or cities) of 50,000 inhabitants or more. The inclusion of contiguous counties in a Standard Metropolitan Area is determined by the application of certain criteria aimed at measuring the metropolitan character of the county or counties and the degree of social and economic integration with the central city. An area may contain not only highly industrialized counties but also adjoining counties which, though primarily residential in character, contribute significantly to the industrial counties' labor force. A standard metropolitan area is generally more restricted than the market or trading area. In the New England States, similar integration criteria have been applied in defining standard metropolitan areas, but on a city and town, rather than on a county basis. The town is a more satisfactory statistical unit than the county in this region of the country. The Standard Metropolitan areas were defined by the Federal Committee on Standard Metropolitan Areas of the U. S. Bureau of the Budget for general-purpose use throughout the Federal government in presenting economic and social data.

The requirement that each standard metropolitan area consist of county units (except in New England) sometimes results in the inclusion in an area of a considerable amount of territory which would not ordinarily be considered "metropolitan," much less "industrial." It is recognized that metropolitan areas could be more accurately defined in terms of smaller area segments such as minor civil divisions, but the usefulness of areas so defined would be limited by the fact that many types of economic and social data are available only on a county basis. Moreover, so far as the Census of Manufactures is concerned, the inclusion in the metropolitan area of large tracts of agricultural or forest land is of little importance, since their contribution to the industrial activity of the area is usually negligible.



Table C.--VALUE ADDED BY MANUFACTURE BY DIVISION AND STATE, 1954

Division and State	Value added by manufacture (millions)	Per-cent	Division and State	Value added by manufacture (millions)	Per-cent	Division and State	Value added by manufacture (millions)	Per-cent
United States, total	\$116,913	100.0	West North Central--Con.			West South Central..	\$5,721	4.9
New England.....	9,128	7.8	Missouri.....	\$2,727	2.3	Arkansas.....	457	.4
Maine.....	565	.5	North Dakota.....	35	.1	Louisiana.....	1,182	1.0
New Hampshire.....	409	.3	South Dakota.....	78	.1	Oklahoma.....	581	.5
Vermont.....	223	.2	Nebraska.....	394	.3	Texas.....	3,502	3.0
Massachusetts.....	4,356	3.7	Kansas.....	1,049	.9			
Rhode Island.....	697	.6	South Atlantic.....	10,658	9.1	Mountain.....	1,505	1.3
Connecticut.....	2,877	2.5	Delaware.....	353	.3	Montana.....	141	.1
Middle Atlantic.....	30,402	26.0	Maryland.....	1,889	1.6	Idaho.....	182	.1
New York.....	14,149	12.1	District of Columbia	157	.1	Wyoming.....	51	.1
New Jersey.....	6,331	5.4	Virginia.....	1,629	1.4	Colorado.....	472	.4
Pennsylvania.....	9,930	8.5	West Virginia.....	988	.8	New Mexico.....	126	.1
East North Central.....	36,501	31.2	North Carolina.....	2,210	1.9	Arizona.....	192	.2
Ohio.....	10,165	8.7	South Carolina.....	1,041	.9	Utah.....	276	.2
Indiana.....	4,625	4.0	Georgia.....	1,592	1.4	Nevada.....	63	.1
Illinois.....	9,669	8.3	Florida.....	798	.7	Pacific.....	11,184	9.6
Michigan.....	8,707	7.4	East South Central.....	4,702	4.0	Washington.....	1,549	1.3
Wisconsin.....	3,334	2.8	Kentucky.....	1,236	1.1	Oregon.....	1,037	.9
West North Central.....	7,114	6.1	Tennessee.....	1,679	1.4	California.....	8,598	7.4
Minnesota.....	1,595	1.4	Alabama.....	1,319	1.1			
Iowa.....	1,236	1.0	Mississippi.....	468	.4			

Note: Detailed figures may not add to the totals because of independent rounding.

Each standard metropolitan area is designated by the name of the principal city of the area. In addition to the name of the principal city, the area title may include a maximum of two additional city names.

(c) Principal industrial counties.--In addition to industry group (3-digit) statistics for standard metropolitan areas with 40,000 or more manufacturing employees, the Census of Manufactures presents data in Area Volume Table 6, by major (2-digit) industry groups, for each "principal industrial county." A "principal industrial county" is one having 20,000 or more manufacturing employees in either 1947 or 1954. (There are 143 counties, or their equivalents, meeting this criterion.)

Although it is not feasible to show detailed industry data for most counties because of the disclosure law, the principal industrial county statistics supplement the data for metropolitan areas in two ways: First, they provide industrial information for the principal counties of some of the smaller metropolitan areas (many of which are, in fact, one-county-areas). Second, they provide information on the variations by county in industrial structure within the larger multicounty metropolitan areas.

(d) Cities of 10,000 inhabitants or more.--As in 1947, summary totals are presented for each individual city having 10,000 inhabitants or more. No industry detail is shown for individual cities. Because of the precedence given to standard metropolitan areas and principal industrial counties, most industry data even for large cities would necessarily be withheld from publication to avoid disclosure of individual company data by subtraction.

(e) Water use regions.--To present data on water use in manufacturing, together with related Census data on manufacturing activity, the country was divided into 18 water use regions. These regions typically represented combinations of river basins. The definitions of these water use regions were developed in consultation with other federal agencies having responsibilities for water development or use and with representatives of private industry.

Boundaries of water use regions generally follow the summits of watersheds and do not follow State boundaries. For practical reasons, however, water use regions are defined in terms of whole counties. Statistics are presented in the Summary Volume for each of these regions on the ratio of gallons of water intake per employee in addition to the total gallons of water intake, source of water, etc. Similar information is also presented for selected industries and counties within the water use regions.

## 9. The Census Report Forms

Although only one report was required from each establishment in the 1954 Census of Manufactures, the diversity of manufacturing activities made it necessary to use some 200 different report forms to canvass the approximately 450 manufacturing industries. In order to obtain the data essential to the census in a manner consistent with considerations of cost and reportability by the respondent, standard forms requiring full census detail were used only for those manufacturing plants above a given size in terms of number of employees (generally six or more employees). For the numerous smaller establishments, typically having less detailed records and representing a very minor portion of manufacturing output and employment, data requirements were limited to a relatively few key items on a general short form. In the case of a few industries where such small plants typify the industry (thus accounting for a substantial portion of its total in their aggregate), modified versions of short forms were used. However, all multiplant companies were sent the appropriate standard form for each of their establishments regardless of the size of establishment.

It was possible in this Census, using the administrative records of the Bureau of Old-Age and Survivors Insurance in conjunction with existing Census records, to determine correctly, in most cases, which report form was required for each manufacturing establishment before the mailing.

Information was obtained on all 1954 forms regarding the physical location, Social Security employer identification number, company affiliation, and form of ownership. These facts not only provided for completeness-of-coverage control in the census (see section 11, Development of the Mailing List), but also permitted the classification of each establishment by geographic location and type of legal organization.

(a) Standard Forms.--Each standard form called for virtually the same general plant items--employment, payrolls, man-hours, summary of materials cost, detailed fuels and electric energy costs, horsepower of installed equipment, water usage, inventories, and capital expenditures. However, the forms differed in that detailed inquiries on the quantity and value of individual products shipped and individual materials consumed as well as miscellaneous inquiries such as types of operation, equipment, and class of customer were adapted to the individual industry or industry group. These adaptations in product and material inquiries resulted in 192 different report forms for the manufacturing industries.



(b) General Short Form.—This form, designed for establishments with less than six paid employees and not part of a multi-unit company, was an abbreviated version of the standard form requesting limited general and product information typically available from the records of smaller manufacturers. For example, only total employment and payroll figures were requested, without detail by functional class of employees (i.e., production workers, force-account construction workers, and all other employees); production-worker man-hour figures were not required. Instead of detailed information on individual products shipped, the short form requested the respondent to indicate only his value of shipments in terms of product classes, a reference list for which was enclosed to provide consistency in reporting.

(c) Modified Short Forms.—In manufacturing as a whole and in most industries, very small establishments accounted for only a minor part of employment or production. Establishments with less than six employees accounted for less than two percent of value added by manufacture. However, for a few industries, smaller plants constituted a significantly large proportion of the total. For these industries, modified short forms were used, with the same establishment type inquiries (i.e., employment, inventories, etc.) as appeared on the general short form. In the materials and product sections of these forms, however, greater detail was required, approaching the materials and product sections of the standard form counterparts for these industries. The industries covered in this manner were: Logging and Sawmills, Concrete Products, Dairy Products, and several printing and publishing industries.

In addition to the report forms described above, there were several special forms used in 1954 to obtain information on related activities of manufacturing companies.

(d) Form for Manufacturing Plants Under Construction During 1954.—This form was designed to obtain data on capital expenditures by manufacturing firms for new plants under construction during 1954 but not in operation by the end of the year. A regular census report of the type described in (a)-(c) above was not obtained from such establishments. The new plant form was sent to the 1,700 largest manufacturing firms, and to a sample of 600 other manufacturing companies. (For a discussion of the purpose and use of this form, see section 25, "Expenditures for Plant and Equipment.")

(e) Form for Separate Central Administrative Offices and Auxiliaries of Manufacturing Companies.—Separate reports for each central administrative office and auxiliary unit (e.g., storage warehouses, power plants, research laboratories, garages, repair shops, etc.), which served the manufacturing establishments of the company rather than the general public, were obtained from the company if they were at locations different from the establishments served or if they serviced more than one manufacturing establishment. The report form included inquiries on payrolls, employment, inventories, sales and warehouse storage space. In the manufacturing field, there were approximately 4,200 such establishments in 1954, about evenly divided between administrative offices and auxiliary units. They accounted for 470 thousand employees with payrolls of almost \$3 billion, which represents 3 percent and 4.5 percent, respectively, of the totals for all manufacturing.

The employment, payroll and other related data for separate administrative offices and auxiliaries are not included in the operating manufacturing establishment totals, either for individual industries or industry groups. The employment and payrolls of such administrative offices and auxiliaries are, however, shown separately and also included in the "all manufacturing" totals in selected tables in the Summary and Area Volumes, e.g., Table 1 of each State report.

(f) Supplemental Form for Industrial Water Use.—On all standard forms, the respondent was asked to indicate, in terms of broad size ranges, the amount of water intake at his plant during 1954. Plants indicating the use of "20 million gallons or more" were defined as large water users. Based on results in the 1953 Annual Survey of Manufactures, it was estimated that this group of plants accounted for about 95 percent

of the total use of water in manufacturing. For 1954 each large user was sent an "Industrial Water Use" form, which requested information on water intake by broad use (processing, cooling, etc.), by type of water (fresh or brackish), and by source (public or private systems) as well as the amount of water recirculated and treated. The water use statistics obtained in the 1954 Census appear in the Summary Volume only.

#### 10. Comparison with 1947 Census Report Forms

In most respects, the inquiries on the 1954 standard Census forms were similar to those of the 1947 Census. However, there were some significant differences as follows: A 1947 classification of employees distinguishing clerical and routine office workers from other non-production personnel was dropped in the 1954 Census. Also, the 1947 item, "analysis of payroll ended nearest Oct. 15th", which included an employment distribution by sex was omitted in the 1954 Census. Further, the 12 monthly employment figures requested in 1947 were reduced to 4 selected months in 1954 except for report forms for highly seasonal industries.

The two-fold distribution of inventories in 1947 (finished products and all other inventories) was expanded in 1954 to a three-fold distribution in which work-in-process inventories were requested as a separate figure. On the other hand, the capital expenditures inquiry was abbreviated by the elimination of the subclasses under expenditures for new plants ("buildings" and "other construction") and by dropping of the subclasses under expenditures for new machinery and equipment ("production machinery and equipment" and "other machinery and equipment").

The industrial water use and horsepower rating inquiries of the 1954 census had no counterparts on the 1947 schedules. Conversely, the 1947 inquiry on highway-type motor vehicles was omitted in 1954.

The 1947 short forms, which were used on a more limited basis (ordinarily for one-employee establishments, except for small sawmills and printing establishments for which a higher employment cut-off was used), were similar in content to the 1954 short forms. In contrast to 1954, the 1947 forms, however, did not require separate figures on cost of contract work, value of total inventories, or total capital expenditures.

#### 11. Development of the Mailing List

The basic mailing list for the 1954 Censuses of Manufactures, Business and Mineral Industries comprised all employers (except farmers, State and local governments, and other ineligible classes) who made one or more quarterly payments in 1954 under the Federal Insurance Contributions Act. The list, which was obtained from the Internal Revenue Service (IRS) of the Treasury Department, contained all of the information necessary for mailing the Census questionnaires except the industry classification of the employer.

The IRS list was matched with various lists containing the industry code number (Standard Industrial Classification) which was required for selection of the appropriate Census report form. The matching operations done mechanically on punch card collating equipment, were made possible by the fact that both the IRS list and the classified lists contained the Social Security employer identification (E.I.) number.

While the IRS list was the basic control mechanism for the Census of Manufactures, the mailing list for the 1953 Annual Survey of Manufactures was the principal device for mailing to large companies. This survey included all large manufacturing establishments (i.e., those with 100 or more employees), which in 1954 accounted for 74 percent of total employment. For smaller establishments, the principal source of industry codes was the "employer master file" of the Bureau of Old-Age and Survivors Insurance (BOASI) of the Social Security Administration. The latter file was supplemented by independent lists for two industrial areas, apparel jobbers and milk bottlers. (The apparel jobber information came from a census commodity survey; the dairy list from an industry source.)



Further mailing list supplementation was necessary for "Multi-unit" companies—those with more than one manufacturing, mining or business establishment. In addition to the 1953 Annual Survey of Manufactures, which provided the principal source of information regarding manufacturing plants of multiunits, a limited pre-canvass was conducted by use of Form NCX-1. This form was sent to about 7,000 large companies and called for a listing of subsidiary corporations. The questionnaires for the smaller multiunits were selected on the basis of BOASI information.

Concerns having Employer Identification (E.I.) numbers on the IRS list which did not match the classified lists, and cases where the E.I. numbers matched but the classified lists did not provide sufficient information for selection of a specific questionnaire, were canvassed by means of a general schedule (NCX-3). The industry code of employers thus canvassed was assigned after receipt of the NCX-3 form on the basis of the information reported on that form. When the establishment filing the NCX-3 form was large or where otherwise necessary, additional information was obtained to complete the appropriate inquiries for the industry to which the establishment was assigned.

In the 1954 Census the report forms were distributed and returned by mail. Personal or telephone contact was made only when the manufacturer failed to respond to the initial request or to followup letters. All forms for larger establishments (in general, those with 6 or more employees) were mailed and the followup was controlled from Washington. Questionnaires for smaller establishments were mailed and controlled in the Census Bureau field offices.

## 12. Completeness of Coverage

For the 1947 Census, coverage was checked by an intensive field study of sample geographic areas, designed to measure losses due both to deficiencies in the original mailing list and to errors in processing (e.g., industry coding) after the questionnaire had been mailed and received. The results of this study indicated that 98.2 percent of the total manufacturing employment and 98.7 percent of total wages and salaries were covered in the 1947 Census statistics. The undercoverage was largely limited to small establishments and was of some importance in industries where establishments frequently combine manufacturing and merchandising activities (for example, production of prepared feeds combined with the retailing of farm supplies). Establishments operating during only part of the Census year, and unincorporated enterprises, constituted a significant proportion of those establishments omitted from the Census totals.

Since deficiencies in the 1947 mailing list were largely responsible for the relatively small "losses" incurred that year and since the 1954 mailing list was considered to be complete, no field coverage check was conducted for the 1954 Census. At various stages of processing of the reports, instead, coverage checks were conducted with the aim of determining whether establishments on the original mailing list were represented in the processing stage under scrutiny. For example, one such check indicated virtually complete mailing of reports to all names on the mailing list. The omissions brought to light through these checks were corrected, (i.e., either the missing reports were located or new reports were obtained). A final check, conducted after the close of collection operations, evaluated completeness of coverage of all establishments in the BOASI files with more than 100 employees. As a result, "missing" establishments in this size group were restored to the tabulations. This final over-all check was not extended to smaller establishments, but a few instances of omission of smaller establishments were discovered and corrected during the review of the Census tabulations.

A large proportion of the omissions discovered (and corrected) among establishments with more than 100 employees was attributable to difficult problems of coverage control among multi-establishment companies. Coverage control was much less difficult for "independent" establishments (companies with only one manufacturing location) and for this reason it was assumed that the

loss rate among small establishments which are largely "independents", was insignificant.

## 13. Manufacturing Employees—Classifications Used

(a) All employees.—The category "all employees" comprises all full-time and part-time employees on the payrolls of operating manufacturing establishments who worked or received pay for any part of the pay period ended nearest the 15th of the months specified on the report form. Included are all persons on paid sick leave, paid holidays and paid vacation during these pay periods; excluded are members of the armed forces and pensioners carried on the active rolls but not working during the period. Officers of corporations are included as employees; proprietors and partners of unincorporated firms, are, however, excluded from the total. Employment at separate administrative offices and auxiliary units is excluded from this category. (See 13b below.)

This total of manufacturing employment is divided into three standard functional classifications (in accordance with the Bureau of the Budget's Standard Specifications for Employment Reports of November 1955, for use by manufacturing establishments in reporting employment, payrolls, and man-hour data), as follows:

Production and related workers.—Workers (up through the working foreman level) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping (but not delivering), maintenance, repair, janitorial, watchman services, product development, auxiliary production for plants' own use (e.g., power plant), record keeping, and other services closely associated with these production operations at the establishment covered by the report. Supervisory employees above the working foreman level are excluded from this category.

Force-account construction workers.—Employees on the payroll of the manufacturing establishment who are engaged in the construction of major additions or alterations to the plant and who are utilized as a separate work force. (Workers engaged in regular maintenance and repair operations are not included here but are classified in the "production and related workers" category.)

All other employees.—Nonproduction personnel of the manufacturing establishment, including those engaged in the following activities: factory supervision above the working foreman level, sales (including driver salesmen), sales delivery (highway truck drivers and their helpers), advertising, credit, collection, installation and servicing of own products, clerical and routine office functions, executive, purchasing, finance, legal, personnel, etc.

(b) Central Administrative Office and Auxiliary Unit Employees.—For the 1954 Census, respondents were asked to report separately any central administrative offices or auxiliary units that were at a different location from the establishments served or at the same location as one of these establishments but not operated as an integral part thereof and administered or served two or more establishments. The functions of employees in central administrative offices include: general company policy determination, planning and management (i.e., company purchasing, accounting, general engineering, direction of company personnel matters, and legal and patent matters). Auxiliaries are storage facilities, garages, repair shops, purchasing offices, sales promotion offices, and research laboratories, serving the plants or central management of the company. Employment and payrolls totals for the central administrative offices and auxiliaries are included in certain tables in the Area and Summary Volumes (see section 9e for additional discussion).

## 14. Manufacturing Employees—Average Employment

In the 1947 Census, the statistics "all employees, number" and "production workers, number" represented averages of reported employment of the mid-month pay period for the 12 months of the year. The 1954 Census report forms requested employment figures for only four selected pay periods (i.e.,



midmonth employment in March, May, August, and November) in all but seasonal industries.

This latter approach was initiated in the intercensal Annual Survey of Manufactures to simplify the schedule format and lighten the reporting burden of respondents, inasmuch as it was found that the average of these selected pay periods approximates very closely the average that would be obtained from the 12 monthly pay periods for almost all industries. A study of the 1947 Census data indicated that the difference between average employment based on the specified 4 pay periods and average employment derived from 12 monthly figures was less than one percent for 376 of the 452 manufacturing industries and less than 3 percent for 442 industries, or 98 percent of all industries. The remaining 10 industries showed a variation of 3 to 9 percent.

In the 1954 Census, the midmonth pay period of the middle month was used for the last three quarters of the year. For the first quarter of the year, however, the mid-March, rather than mid-February, pay period was selected in order to tie-in with the identical pay period for which employment data are reported to the Bureau of Old-Age and Survivors Insurance. This permits coordination of Census and BOASI establishment employment records, both for the purpose of a census "universe" control in census years, and in intercensal years for the tabulation of "County Business Patterns" data which are directly comparable with the Annual Survey of Manufactures estimates for industry groups, States and geographic divisions. Further analysis of the 1947 Census disclosed virtually no change in the 4-month employment average by selecting mid-March rather than mid-February as the representative pay period for the first quarter.

In the 1954 Census, therefore, the four selected pay periods mentioned above were used on all census report forms, except 15 covering 40 seasonal industries. A supplemental inquiry was included on the report form for such industries, requiring the midmonth total employment for each of the 12 months of the year. For this purpose, seasonal industries were defined as those in which one of the following conditions held in any one of the years 1947, 1950 or 1952:

(a) Average annual employment based on March, May, August and November differed by 2 percent or more from the average based on all 12 months of the year.

(b) The ratio of employment in the lowest of the 12 months to employment in the highest month fell below 75 percent.

#### 15. Manufacturing Employees--Payrolls

This total includes the gross earnings paid in the calendar year 1954 to all employees on the payroll of operating manufacturing establishments. Respondents were told they could follow the definition of payrolls used for calculating the Federal withholding tax. It includes all forms of compensation such as salaries, wages, commissions, dismissal pay, all bonuses, vacation and sick leave pay, and compensation in kind, prior to such deductions as employees' Social Security contributions, withholding taxes, group insurance, union dues, and saving bonds. The total includes salaries of officers of these establishments, if a corporation; it excludes payments to the proprietor or partners. Also excluded are payments to members of armed forces and pensioners carried on the active payroll of manufacturing establishments.

The 1954 Census definition of payrolls, identical to that recommended to all Federal statistical agencies by the Bureau of the Budget, is also the same as the 1947 Census definition. It should be noted that this definition does not include employers' Social Security contributions, or other nonpayroll labor costs such as employees' pension plans, group insurance premiums, and workmen's compensation. Force-account construction worker wages are included in total payrolls even though such wages are a cost charge to the manufacturer's capital account rather than a current production cost. However, these wages represent an inconsequential fraction of total manufacturing payrolls, as most construction of new plants or additions to existing plants is performed on a contract basis, either by independent construction firms or separate construction subsidiaries of manufacturing concerns.

As in the case of employment figures, the payrolls of separate central administrative offices and auxiliary units of multiestablishment companies are not included in the totals for individual industries or industry groups but are shown in table 1 of each State report and selected other tables in the Area and Summary Volumes.

#### 16. Production and Related Worker Man-Hours

This total consists of all plant man-hours of production and related workers as defined above. It represents all man-hours at the plant worked or paid for, including actual overtime hours (not straight-time equivalent hours). It excludes hours paid for vacations, holidays, or sick leave, when the employee was not at the plant. Where employees elected to work during the vacation period, only actual hours worked by such employees were reported.

The production worker man-hours total for an industry, as collected in the Census, provides a comprehensive measure of labor input, taking into account both the number of production workers and their actual hours of work.

As in the 1947 Census and subsequent Annual Surveys, 1954 man-hours data were requested by quarter for the calendar year, on the basis of 1947 Census pretests. These pretests indicated that quarterly data could be reported more readily than either monthly or annual data. The man-hours figures issued by the Census differ from those published monthly by the Bureau of Labor Statistics which cover all hours paid for, whether or not worked, and relate only to the payroll period ending nearest the middle of each month. The 1954 Census definition of man-hours (i.e., all man-hours at the plant, including "stand-by" hours paid for) is a clarification, without altering the desired concept, of the 1947 definition which simply called for all man-hours worked.

Man-hours were generally well reported except in the case of small establishments which, as in the 1947 Census, experienced some difficulty in distinguishing between production and other types of workers, and except for some industries like apparel where work is commonly performed on a piece rate basis. Where man-hours were not reported and it was not feasible to obtain the information by correspondence, the data were estimated. Because this estimating was largely confined to small establishments, there is no significant qualification to the validity of overall industry and geographic area totals for man-hours, except for sawmills and a few other industries characterized by small establishments or by other limitations in their record-keeping affecting the reporting of man-hour information. However, the man-hour figures for establishments with fewer than 10 employees, shown in the Size of Establishment chapter of the Summary Volume, should be interpreted with this factor in mind.

#### 17. Cost of Materials, etc., Consumed

A summary inquiry on the 1954 Census report forms requested information on the cost of materials, supplies, semi-finished goods, fuels and electric energy, actually consumed or put into production during the year, whether purchased, withdrawn from inventories, or received from other establishments of the company, as well as the cost of contract work. "Cost" refers to direct charges actually paid or payable for items consumed or put into production during the year, after discounts, and including freight charges and other direct charges incurred by the establishment in acquiring these materials.

Under the general heading "Cost of materials, etc." separate figures were obtained for (a) the total delivered cost of all raw materials, semi-finished goods, parts, components, containers, scrap, and supplies consumed or put into production; (b) the amount paid for electric energy purchased; (c) the amount paid for all fuels consumed for heat, power, or the generation of electricity; and (d) the cost of work done by others on materials or parts furnished by the reporting manufacturing establishment (contract work). The cost of materials figure published for each industry does not include the separately reported cost of products bought and resold in the same condition; also, it excludes the cost of purchased services, such as advertising, insurance, telephone, and research; it excludes overhead costs,



such as depreciation charges, rent, interest, etc.; it excludes materials, machinery and equipment used in replacement or expansion of plant or capitalized repairs which are chargeable to fixed assets accounts.

Where the respondent's records did not show the actual amounts consumed or put into production during 1954, he was permitted to enter purchase figures provided purchases closely approximated consumption during the year. For minor materials and supplies, the substitution of purchase records was accepted regardless of the variation between purchases and consumption. If for any major material, however, the two measures differed significantly, the manufacturer was instructed to derive an estimated consumption figure by adding purchases (or receipts) to amounts on hand at the beginning of the year and subtracting amounts on hand at the end of the year. While it was not feasible to audit the resulting figures reported for materials and supplies consumed, enough checks of consistency were made so that it is believed that the aggregates reported are close approximations of actual consumption.

In the case of materials received from other plants of the same company or from a central materials depot (whether at the same or different physical location), the respondent was asked to approximate the commercial value of these materials, including freight and other direct handling charges. For some industries in which there was no satisfactory market counterpart of the transferred material, special instructions were necessary. The respondent was also asked, where possible, to check that such approximated costs exceeded the value of shipments reported by the company's plant producing and transferring the goods only by the addition of freight and other direct charges.

It should be noted that the cost of fuel consumed under (c) above (including anthracite and bituminous coal, natural and manufactured gas, fuel oil, liquefied petroleum gas, and other fuels) does not include fuel used as a material in the manufacturing process, for example, coal used in the production of coke. Such costs were included with other materials costs in category (a) above.

A summation of industry figures for cost of materials would result in large and unknown amounts of duplication in industry group totals, owing to the addition of costs reported by related industries engaged in successive fabrication stages in the production of finished manufactured products. For this reason, cost of materials figures are not shown at the industry group (3-digit) and major industry group (2-digit) levels. With some important exceptions (such as Blast Furnaces and Steel Mills, Radios and Related Products, and Motor Vehicles and Parts), this duplication is not significant within individual industries.

#### 18. Individual Materials Consumed

In addition to the total cost of materials, fuels, etc., which every establishment was required to report, quantity and cost information was collected on the use of 433 specific materials. Consumption information was also collected for an additional 762 items as part of the product sections of the report forms. The latter group typically consisted of items which were produced and also consumed by the producing establishments or by other establishments in the same industry. For example, many chemical plants produced a basic chemical and then used it in further processes. Also in the steel industry, data on receipts and consumption of mill shapes were obtained as part of the inquiry calling for the production and shipments of these shapes.

Materials were covered in two ways. For 230 materials, every industry that consumed appreciable quantities of the material was canvassed so that the data would represent at least ninety percent of the total consumption by manufacturing industries. For the remaining 203 materials, information on consumption was obtained on a more limited basis, generally only from those industries in which the materials were an important part of total material costs. Of the 762 products for which consumption information was obtained, industries accounting for ninety percent or more of manufacturing consumption were covered for about 300 items.

Because American industry uses an enormous variety of materials, the number of materials for which "complete" coverage consumption data (90 percent or higher) were obtained had to be strictly limited. The selection of a particular material for such coverage was therefore based on the following criteria:

- (1) The importance of the material as measured by the total value of United States consumption of the material
- (2) The percentage of total consumption accounted for by manufacturing establishments
- (3) The availability of consumption information from manufacturers' records
- (4) In certain instances, other factors such as the strategic importance of the material or the availability of historical data on the use of the material.

The materials included on a limited coverage basis were chosen not only because they constituted important inputs for particular industries but, frequently, because they provided necessary classification-type information and other indirect measures. For example, an industry's production was of a heterogeneous character and materials consumed afforded a better measure of physical output than could be obtained from available production data.

Tabulated data on the materials consumed in an industry are usually shown in the report for that industry. In addition, for the 230 materials covered on a complete basis (see above), consumption by all industries and, frequently, by States is shown in the Summary Volume. The data on materials consumed relate generally to the quantity and cost of materials purchased from other companies or obtained from other plants of the same company. However, for selected materials which are also importantly produced for use within the same establishment, information was requested on such captive production in quantity terms only.

Some undercoverage exists in the statistics for most individual materials. This undercoverage results from the fact that:

- (1) Individual materials consumption information was obtained only from establishments using one of the Census of Manufactures standard forms. For the most part, therefore, plants with fewer than six employees are not represented in the statistics. A rough indication of the effect of short forms on the materials covered can be derived from an analysis of the size of establishment tables which appear in the industry reports in the Industry Volume and in a separate chapter of the Summary Volume.
- (2) Establishments consuming less than a specified amount of a material were not requested to report consumption of the material separately. For the majority of individual materials, the minimum amount was \$5,000.

The use of such cut-offs, as well as short forms, is not believed to have had a significant effect on the totals for most materials. However, for industries where a sizeable proportion of the activity is accounted for by small establishments or where a specified material is used in relatively small quantities, the above limitations may be of some consequence.

In the area of metal mill shapes and castings, the minimum amounts to be reported separately in the 1947 Census were 50 tons for carbon steel shapes, 25 tons for alloy steel and 10 tons for stainless steel, nonferrous mill shapes and castings. The reporting cut-off for each of these metals in 1954 was \$5,000. Because of the dominance of large consuming establishments in the totals for these materials, however, the effect of the difference in cut-offs between the two years is believed to be negligible.

#### 19. Value of Shipments

The amounts under value of shipments both for industries and for individual products or classes of products are the received or receivable net selling values, f.o.b. plant, after discounts and allowances, and excluding freight charges and excise taxes.



However, where the products of an industry are customarily delivered by the manufacturing establishments (bakery products, fluid milk, soft drinks, for example) the value of shipments is based on the delivered price of the goods rather than the f.o.b. plant price. For the tobacco and other industries where excise taxes are important, such taxes are covered separately.

Under the general heading of shipments, manufacturers were asked to include all items, made by or for each establishment from materials owned by it, whether sold, transferred to other plants of the same company, or shipped on consignment. Also included were receipts for contract work and for such miscellaneous activities as sale of scrap and refuse, installation work by manufacturing plant employees, research and development work, and repair work. The net selling value of products made in one plant on a contract basis from materials owned by others was reported by the plant providing the materials. The value of products bought and resold without further processing (merchandising) was reported separately and is excluded from the value of shipments figures shown in all tables; the value and cost of resales are, however, shown separately in table 3 of the Industry Volume.

In the case of multi-unit companies, the manufacturer was requested to report the value of products transferred to other establishments of the same company (i.e., other manufacturing plants, separate sales branches, or retail stores) at "the nearest approximation to corresponding commercial values, f.o.b. plant, and not the cost of production."

The industry "value of shipments" is necessarily different from the value of shipments of the group of products regarded as "primary" to the industry. The value of shipments of primary products of an industry (Tables 5 and 6 of the Industry Volume) includes the value of such products reported by all producers, including those establishments in other industries which make these items as "secondary" products. However, that value does not include the value of secondary products of establishments classified in the industry, nor receipts of such establishments for contract work and other miscellaneous activities. The general use of shipments as the basis for valuing the output of manufacturing industries differs from the practice for all censuses except those for 1947 and 1929. The selection of shipments in recent censuses was made in order to facilitate direct reporting from records of sales, shipments, or billings. Value of shipments for 1954 and 1947 may, however, be directly compared with value of products for earlier years. In the first place, it is likely that in earlier censuses many manufacturers valued their output in terms of shipments even though value of production was requested. Secondly, the changes in the value of finished goods inventories for most industries were of minor importance and there was, therefore, little difference between production and shipments in 1954, 1947, and 1939 Censuses. The "value of production" was requested in the 1954 Census for a relatively few industries where such records are generally maintained in place of shipment figures and reporting of the latter would have involved undue difficulty for the respondent. These instances are noted in the tables and descriptive text for the industries involved.

## 20. Individual Products

For 1954, as for 1947, data were collected for almost all industries on the quantity and value of individual products shipped. In the 1954 Census, information was collected on the output of approximately 7,000 individual product items. The term "product" as used in the Census of Manufactures represents the finest level of detail for which output information was requested. Consequently, it is not necessarily synonymous with the term product as used in the marketing sense. For example, all grades of automotive gasoline were reported as a single item. On the other hand, cotton broad-woven goods were distributed into nearly 200 items.

The list of products for which separate information was collected in the 1954 Census was based on the product categories selected for the 1947 Census of Manufactures after extensive consultation with industry and government representatives. This 1947 Census list was reviewed in preparation for the 1954 Census

and modifications were made in many instances, although less extensively than in 1947. In readjusting the list of products, comparability with previous figures was given considerable weight. Comparable 1947 information is presented for most products, therefore, at some level of detail.

Typically, quantity and value of shipments information was collected for each product. In some cases quantity was not significant or could not be reported by manufacturers, largely because of the wide range of sizes, prices or different types of products included in the category. For these products, only value of shipments was collected. Shipments include both commercial shipments and transfers of products to other plants of the same company. For products for which a considerable portion of the total shipments is transferred to other plants of the same company, separate information on such interplant transfers was also collected. Moreover, for products which are used to a large degree within the same establishment as materials or components in the fabrication of other products, total production and often consumption of products produced in the same establishment were collected. Production data were also collected for products for which there are significant differences between total production and total shipments. Other measures of output of products, such as "value of work done" for products with long production cycles, were used as appropriate and feasible.

## 21. Classes of Products

For the purpose of summarizing the product information, the separate products were aggregated into "classes of products" which were in turn grouped into all "primary" products of each industry. The code structure used is a 7-digit number for the individual products, a 5-digit code for the class of product, and a 4-digit code for the total primary products in an industry.

The 7,000 product items in the 1954 Census were grouped into approximately 1,000 separate classes on the basis of general similarity of manufacturing processes, types of materials used, and the like. However, the grouping of products was affected by the economic significance of the class, and in some cases, dissimilar products were grouped because they were not sufficiently significant to warrant separate classes.

The product class was developed in order to provide an intermediate level of classification for output information. Because of the reduced number of separate items and the increased number of companies producing the class of products, additional tabulations of output information, e.g., product class by State (table 6B of the Industry Volume) are feasible more frequently than would be possible for individual products. The increased number of companies minimizes the problem of protection against disclosure of individual company information and the smaller number of items (product classes) reduces the cost of tabulation.

## 22. Duplication in Cost of Materials and Value of Products

The aggregate of the cost of materials and value of shipments figures for industry groups and for all manufacturing industries includes large amounts of duplication owing to the use of products of some industries as materials by others. With some important exceptions, such as Motor Vehicles and Parts, this duplication is not significant within individual industries but arises from the addition of statistics for related industries representing successive stages in the production of a finished manufactured product. Examples are the addition of flour mills to bakeries in the Food Group and the addition of pulp mills to paper mills in the Paper and Allied Products Group of industries. Estimates of the over-all extent of this duplication indicate that the value of manufactured products exclusive of such duplication—the value of finished manufactures—tends to approximate two-thirds of the total value of products reported in the Census of Manufactures. Because of the unknown and varying amounts of duplication contained in cost of materials and value of products, these figures are not shown for groups of industries or for geographic areas in this census and are also eliminated for approximately a dozen individual industries containing significant amounts of duplication.



Even where no significant amount of duplication is involved, value of shipments figures are deficient as measures of the relative economic importance of individual manufacturing industries or geographic areas, because of the wide variation in ratio of materials costs to labor and other processing costs, both among industries and within the same industry.

### 23. Value Added by Manufacture

This measure is derived in the 1954 Census (as it was in the 1947 Census and intervening annual surveys) by subtracting the cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, from the value of shipments of manufacturing establishments. It avoids, therefore, the duplication in the value of shipments figure which results from the use of products of some establishments as materials by others. It is considered to be the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

Value added by manufacture should not be confused with "national income originating in manufacturing," as presented in the national income estimates compiled by the Office of Business Economics, Department of Commerce. The latter measure is the sum of factor costs incurred by an industry in production. It excludes, in addition to cost of materials, such other costs as depreciation charges, State and local taxes (other than corporate income taxes), allowance for bad debts, and purchases of services from nonmanufacturing enterprises, such as contract costs involved in maintenance and repair, services of development and research firms, services of engineering and management consultants, advertising, telephone and telegraph expense, insurance, royalties, patent fees, etc. It is, therefore, a more "net" concept of value added than that used in the Census of Manufactures.

In part, the "national income originating" estimates are prepared from company rather than establishment data. This results in the inclusion of some part of the net value added (or a logical approximation of it) by nonmanufacturing establishments of companies classified as being primarily manufacturing; and conversely, in the exclusion of some part of the net value added by manufacturing establishments of companies classified as primarily nonmanufacturing. It is believed that for manufacturing as a whole the net effect increases income originating. (In fact, in the Petroleum and Coal Products major industry group, nonmanufacturing activities of manufacturing companies are so significant that this is the one major industry group in which O.B.E. "income originating" exceeds Census "value added by manufacture.") Many of the items that must be deducted from "value added" to arrive at an income originating figure can be reported on an establishment basis only with considerable difficulty, if at all.

Another distinction between the Census value added and O.B.E. income originating statistics arises from the treatment of net changes in inventories of work-in-process and finished goods. The census figure is based on shipments, and hence does not reflect net changes in these inventories during the year. The O.B.E. estimate makes allowance for inventory changes.

For industries in which intra-company transfers constitute a significant part of total cost of materials or value of shipments, the Census value added is subject to certain limitations arising from the assignment of values to the products transferred. To the extent that manufacturing companies assign to products shipped from one establishment of the company (classified in Industry A) to another (in Industry B) values that reflect only cost of production without adequate allowance for overhead and profit, the value added in Industry A will be understated whereas that for Industry B will be overstated. For related groups of such industries and for manufacturing as a whole, this imbalance cancels out, of course, and the aggregate value added is without distortion due to problems of transfer valuation.

In the calculation of value added for the 1954 Census and prior years, products bought and resold in the same condition (resales) are excluded from both the value of shipments and the cost of materials, etc. However, value added by manufacture including value added by resale and the net change in work-in-

process and finished product inventories is shown for 1954 in a special table in the Summary Volume. It is planned that this more comprehensive concept will be followed in future censuses and annual surveys of manufactures.

### 24. Inventories

The value of beginning-of-year and end-of-year inventories held by each manufacturing establishment, except for those in Printing and Publishing, was obtained in the 1954 Census. Based on the successful experience in the 1953 Annual Survey of Manufactures, separate inventory figures were requested for: (1) finished products; (2) work-in-process; and (3) materials, supplies, fuel, and other inventories. In the earlier Annual Survey years and in the 1947 Census, inventory data had been collected for only two major categories: (1) finished products and (2) work-in-process, materials, supplies, and other inventories.

Respondents were asked to report their inventories at approximate current costs if feasible; otherwise "at book values." Since different methods of inventory valuation are used (LIFO, FIFO, etc.) the meaning of the value of inventories aggregate for all establishments in an industry is not precise. The figures on change in inventory between the beginning and the end of the year are of considerable significance.

Establishments were asked to report total inventories and a distribution of inventories by materials, work-in-process, and finished goods. However, an item treated as a finished good by an establishment in one industry may be reported as a raw material by another establishment in a different industry. For example, the finished product inventories of a steel mill would be reported as raw materials by a stamping plant. Such differences are present in the inventory figures by stage of fabrication shown for individual industries, industry groups, and all manufacturing which are merely aggregates of figures reported by establishments in specified industries. It should be noted further that the total finished goods inventory for all manufacturing includes items that are not finished manufactured products.

For a few industries in the food group there are special problems in the handling of inventories by stage of fabrication. These are industries in which the products are usually stored under controlled conditions and the products are aged. Included among such types of products are stemmed and dried tobacco, cheese, and whiskey. It is not clear whether such products should be treated as finished goods inventories or as work-in-process while in storage. In all of these industries substantial finished goods inventories have been reported. These data have been summarized in the inventory tables in a consistent manner for all of the years included in this report. The Census Bureau is investigating this problem further.

The total end of 1954 inventory of \$40.3 billion reported in the Census of Manufactures by manufacturing establishments is lower than the total inventory of \$43.5 billion estimated for manufacturing companies by the Office of Business Economics for the same date. This difference is mainly attributable to the fact that the Census of Manufactures total includes only the inventories of manufacturing establishments while the O.B.E. inventory is a total for manufacturing firms. The sales branches alone, among the nonmanufacturing establishments of manufacturing companies, reported inventories of \$2.2 billion in the 1954 Census of Wholesale Trade.

### 25. Expenditures for Plant and Equipment

In the 1954 Census, manufacturers were asked to report expenditures made during the year for permanent additions and major alterations to their plants, as well as for machinery and equipment purchases, that were chargeable to fixed-asset accounts of manufacturing establishments and were of a type for which depreciation accounts are ordinarily maintained. Capital expenditures during 1954 were to be determined by the following computation: additions completed during the year, plus construction in progress at the end of the year, minus construction in progress at the beginning of the year. Expenditures for machinery and equipment were to include those made for re-



placement purposes, as well as for additions to plant capacity. Excluded from such expenditure totals are costs of maintenance and repairs charged as current operating expenses. Also excluded are expenditures for land and expenditures made by owners of plants and equipment leased to manufacturers.

In addition to total capital expenditures, respondents were requested to indicate the following subtotals: (a) new structures and additions to plant (including major alterations and capitalized repairs and improvements); (b) new machinery and new equipment (including capitalized repairs and improvements); and (c) expenditures for used plant and used equipment acquired from others (including the United States Government). This three-fold breakdown of capital expenditures, also used in the 1949-1953 Annual Surveys, represents a contraction of the detail obtained in the 1947 Census when item (a) above was subdivided into buildings and other construction, and item (b) into production machinery and other machinery. The publication of statistics on capital expenditures is generally confined to new plant and equipment (items (a) and (b) above).

In the 1947 Census and the 1949 and 1950 Annual Surveys, data on capital expenditures related only to manufacturing establishments that were in operation at some time during the report year. They did not include expenditures incurred during the year for constructing and equipping new plants not yet in operation, or for renovating idle establishments. To close this statistical gap, such supplemental capital expenditures data were obtained in the 1951-1953 Annual Surveys, and again in the 1954 Census, by means of a special company report form. The 1954 report form (Form MC-D3) collected capital expenditures detail for each manufacturing plant under construction or renovation from the approximately 1,700 largest manufacturing companies. In addition, reports were obtained from about 600 smaller companies, selected as a representative sample of all other manufacturing concerns. Based on the 1951-1953 Annual Survey experience, the relative contribution from such smaller companies to this "under construction or renovation" segment of expenditures is ordinarily less than one-tenth of the estimated total.

The capital expenditures figures in the Industry and Area Statistics Volumes do not cover idle plants and plants under construction that were not put into operation within the year 1954. Data on this type of capital outlay are shown by industry group and by State in Volume I, Summary Statistics.

The census figures on capital expenditures differ from those estimates published from the joint Office of Business Economics-Securities and Exchange Commission sample survey. In addition to the sampling variation present in the latter data, a major source of difference is to be found in the scope of the two series. Census data relate only to manufacturing establishments, whereas the OBE-SEC series on expenditures, covers all establishments, manufacturing and nonmanufacturing, of companies classified as manufacturing concerns. This factor is particularly important in the petroleum industry, where company expenditures for developing new wells and new distribution facilities are ordinarily much larger than their capital expenditures at refineries. The OBE-SEC series excludes from the totals for manufacturing industries firms which operate manufacturing establishments but are primarily nonmanufacturing companies. Both series, it should be noted, exclude expenditures for plant and equipment at establishments owned by the Federal Government but operated under lease or contract by private companies.

## 26. Fuels, Electric Energy, and Water

Detailed statistics on use of fuels by manufacturing establishments for power and heat were collected in the 1954 Census of Manufactures. Separate figures were collected for coal, coke, fuel oil, gas, and other fuels. For each of the fuels with the exception of "other" fuels, both quantity and cost were collected. For "other" fuels, only cost was collected. The fuels reported in this inquiry exclude those used by manufacturing establishments as a raw material. For example, coal consumed in the manufacture of coke is not included in the fuel statistics.

However, data on such consumption are included in the materials consumed tables in the Industry and Summary Volumes.

Data were also collected on the use of electric energy in manufacturing. Separate figures were collected for the quantity and cost of electric energy purchased, the quantity of electric energy generated, and the quantity and value of electric energy sold.

Statistics on the industrial use of water were collected in 1954 for the first time in a Census of Manufactures. Comparable water use information had been obtained as part of the 1953 Annual Survey of Manufactures to meet a growing need for data on this important natural resource. (See Section 9f.) The water use statistics are shown by industry, State and water use region in Volume I, Summary Statistics.

## 27. Horsepower of Equipment

For the first time since 1939, statistics on horsepower rating of power equipment were collected. Such information had been requested prior to 1939 in periodic censuses as far back as 1869.

For prime movers, separate statistics in terms of total horsepower rating were collected for movers driving generators and movers not driving generators. Similarly, the horsepower rating of electric motors (excluding fractional horsepower motors) was obtained. In order to derive a measure of aggregate horsepower, the figures for electric motors were divided between motors driven by purchased energy and motors driven by energy generated within the same establishment. For establishments both generating and purchasing electric energy, the electric motor horsepower was split on the basis of the ratio of quantity of electric energy purchased to quantity generated in the establishment. The aggregate horsepower was then derived by summing the prime mover horsepower figures with the horsepower of electric motors driven by purchased energy. In this manner, duplication of horsepower between prime movers driving generators and motors driven by generated electric energy was eliminated. The problem of estimating the separation of the electric motor horsepower was limited inasmuch as the great majority of manufacturing establishments do not generate electric energy.

Horsepower of stand-by equipment as well as equipment in operation at the end of the year was requested. Included were all movers and motors in mobile as well as stationary equipment. Only motors driving highway-type motor vehicles were excluded.

## 28. Selected Metalworking Operations

For all industries in S.I.C. Major Groups 34 to 37 inclusive, and Group 19, and selected 4-digit industries in Group 33, the 1954 Census of Manufactures included a special inquiry on "Selected metalworking operations" to provide a measurement of the metalworking facilities in manufacturing. The following metalworking operations were included in this inquiry: foundry (except die casting); die casting (nonferrous metal only); forging-presses, hammers, or upsetters; electroplating; galvanizing and other hot-dip coating; heat treating or annealing of metals for production purposes; automatic screw machine department; machine shop; tool and die room, if separate from machine shop; pattern shop (foundry patterns only-metal, wood, etc.); plate or structural fabrication; and stamping, blanking, forming or drawing. The number of establishments performing these operations, classified by size of the specific operation, is shown by industry in the Industry Volume and in Chapter XII of the Summary Volume and by geographic division and State in the Summary Volume. The size distribution is based on the number of production workers usually employed in the operation. In addition, the actual number of production employees is given for the total of operations usually employing 20 or more workers. A column showing total estimated production workers for all establishments engaged in each of the metalworking operations is also included in the Summary Volume chapter.

Information on these metalworking operations was obtained for practically all industries where such operations are con-



sequential. In many of these industries, however, small establishments reported on a short form that did not include the inquiry on metalworking operations. Also, a few larger establishments that filed standard forms did not report their metalworking operations. This has resulted in an understatement of the number of establishments maintaining specific operations, primarily in the smallest size class, and to a much lesser degree an understatement of the total number of production workers in the operations. An approximation of the understatement in terms both of number of establishments and total employment is provided in the appropriate tables. The employment coverage is over 90 percent for nearly all industries and close to 100 percent for the larger metal consuming industries. The coverage is highest in industries which have few establishments with less than 6 employees. This type of operations information is useful in conjunction with the specific materials consumed data and with general relationships between materials cost and value of shipments in studying the extent of integration in specific industries. Moreover, this information measures approximately the extent to which these operations, which for the most part define individual industries, are conducted by establishments classified in other industries in the metal products area.

### 29. Selected Equipment Data

Detailed data on equipment were obtained from textile mills (S.I.C. Major Group 22, except 225, 2274, 228 and 229) and oil-seed crushing mills (S.I.C. Group 288) and are shown in the sections on those industries in the Industry Volume. The textile inquiries provided an inventory of selected items of equipment used in fiber preparation, spinning, weaving, and finishing; the oil mill inquiries secured information on various types of presses and the quantities of crushed seed and oil produced.

Information on storage capacity was collected from dairies (S.I.C. Group 202), grain mills (Industries 2041-43), ice plants (Industry 2097), tobacco plants (Major Group 21), and petroleum refineries (Industry 2911). These data which were obtained primarily to supplement similar inquiries included in the Census of Business are also shown in the Industry Volume.

### 30. Distribution of Manufacturers' Shipments

Information on the volume of goods shipped to various classes of customers (wholesalers, retailers, industrial users, etc.) was collected for the 28 industries or commodity groups listed below:

Industry or Commodity Group	Related S.I.C. Industry
Confectionery	2071-72
Soft drinks	2081
Hosiery	2251, 2252
Carpets and rugs	2271, 2273
Linoleum	2274
Printing and publishing	2731
Drugs and medicines	2831, 33, 34
Paints and paint products	2851, 52, 53
Essential oils, perfumes and cosmetics	2893
Petroleum products	2911, 2992
Shoes and slippers, other than rubber	3141, 42
Heating and cooking apparatus (including electric)	3432, 3439, 3621
Service-industry and household machines	3581, 3589
Refrigeration and air conditioning equipment	3585
Storage batteries	3691
Sporting and athletic goods	3949

This inquiry was originally planned to be similar in scope to the "Distribution of Manufacturers' Sales" inquiry in the 1939 Census of Manufactures. The 1939 distribution item covered 402 of 446 industries, and the information requested was identical for all the industries covered (with slight modifications for

certain textile industries). During the clearance of the 1954 Census forms, however, the Advisory Council on Federal Reports indicated the desirability of limiting the inquiry to industries which typically maintain records of shipments by class of customer and have a diversified distribution pattern and, furthermore, of adapting the inquiry in accordance with the customer channels of the particular industry. It was suggested by members of the Council, and later confirmed by a check of the Census reports, that the 1939 inquiry was poorly reported because of the lack of standardization among records maintained by manufacturers. Extensive conferences with industry representatives were held and, as a result, the inquiry was included only on the forms for the industries listed above. The details of the 1954 inquiries adopted differed from industry to industry, although, in general, distinctions were made between (a) interplant transfers, (b) shipments to retailers, (c) shipments to wholesalers, (d) shipments to Government, and (e) export shipments. The inquiries in some instances were confined to shipments of specific commodities, and in others covered the entire shipments of the industry, including both its "primary" and "secondary" products.

### 31. Plant Specialization Data

In response to needs expressed by data users, a program of plant specialization statistics was developed for the 1954 Census of Manufactures. These data provide a more exact measurement of the relationship between the output of an industry and the statistics on employment and payrolls, cost of materials, etc., reported by the same industry. The plant specialization data (in table 8 of the Industry Volume and Chapter XI of the Summary Volume) importantly supplement the information presented in the industry tables 5A and 5B.

Specialization for an establishment is computed in two ways. The first computation is in terms of the ratio of all the primary products of the establishment to its total of primary plus secondary products. The second in terms of the ratio of the largest single product class of the establishment to its total of primary plus secondary products. Receipts for contract and commission work as well as other miscellaneous receipts are not included in the plant specialization computation. Establishments are then grouped according to their degrees of specialization at the two levels. The statistics presented in table 8 group establishments in four specialization ranges for most industries: 90 percent or more, 75-89 percent, 50-74 percent, and less than 50 percent. For each of these ranges at the two levels (all primary products and the product class), statistics are shown on employment and payrolls, value added, cost of materials, and value of shipments.

Not all industries or all product classes are included in table 8 in each of the industry chapters. Industries having a high degree of primary product specialization (90 percent or more—see table 3 of the industry chapters) and including only one product class are omitted since the statistics for the specialized establishments would be approximately the same as those for the entire industry. In addition, selected industries having more than one product class as well as particular specialization ranges within a product class may have been omitted in order to avoid disclosing individual company figures.

Certain product classes are primary to more than one industry. The industry classification of establishments primarily producing such classes of products is determined on the basis of the kind of operation performed in the establishment, e.g., making the product from purchased materials or from materials produced at the same location. In the plant specialization data (table 8), product classes primary to two or more industries are shown in each of the respective industries. For each industry, the specialization data by industry and product class include only those establishments producing the class of product in the manner defined (e.g. lubricating oils from purchased materials).

Table 8 of the Industry Volume permits analysis of an industry in terms of the differences introduced by variation among establishments in the degree of specialization in the products of the industry or subgroup thereof. For example, where the ratios



of various statistics tend to be different for establishments specializing to different degrees in the products of the industry or in different product classes, such ratios for the industry as a whole would be importantly affected by shifts in product mix. It should be noted that for those industries in which a production process results in the manufacture of byproducts or other similarly highly correlated products which are separate product classes in the Census, the degree of specialization in each of the product classes tends to be somewhat lower.

Differences in the degree of integration of production processes within establishments are often more important than the element of product mix. No comprehensive industry by industry measure of variations in production processes among establishments is available in the 1954 Censustables. A partial measure of differences arising from this factor can be derived for some industries through the metalworking operations or other equipment data. For some other industries, data on the production and use of products within the same establishment may be used as an approximate measure (see also discussion in Section 6, Industry Classification of Establishment, concerning differences in process integration, captive production, etc.)

Statistics for establishments highly specialized in the products of their industry classification are also presented in table 3 of the Industry Volume for industries with a primary product specialization ratio of less than 90 percent. This permits a direct comparison of the statistics for the specialized establishments with the totals for the industry. However, the proportion of the total industry represented by the specialized establishments should be considered in the analytical use of the statistics for such establishments.

### 32. Imputation of Data

Each "key" census total called for on the standard forms had its counterpart in the various short forms. The short forms, however, did not require the detailed distribution of such totals (see Section 9, The Census Report Forms). It was necessary, therefore, to impute figures for these missing detail items in order to publish "universe" census totals of manufacturing activity.

Imputation of missing items was made feasible by use of the Census Bureau's high-speed electronic computer, Univac. Imputation factors (or ratios) were developed for each detailed item, taking into account a plant's industry classification, regional location, and employment size. These factors were applied by Univac against the reported total figures. For example, it was thus possible to estimate, for each establishment reporting on a short form, the number of production workers from the reported total employment figure; production worker wages were imputed from reported total payroll, and, in turn, production worker man-hours were developed from the derived production worker wages. Similarly, figures for the three-fold classification of inventories were developed from the reported total inventories. This imputation system was also applied to standard forms on which detailed items were not reported and where the total figures were too small to warrant "follow-up" correspondence on such omitted data.

Estimates of the incidence of imputation of detailed figures for short forms (as well as omitted detail for standard forms) in the 1954 Census indicate that, on the average, such imputation represents less than 5 percent of the published census totals.

For industries characterized by establishments of some size, the percentage of imputation of general measures such as employment and payrolls, cost of materials, inventories, expenditures, and the like is under 5 percent; for the industries in which

small establishments account for a significant portion of the total, the percent may go as high as 10 to 20. Of the various statistics, man-hours worked tended to have a higher degree of imputation than the other items due to certain difficulties in reporting those data by small and medium-size establishments in industries such as sawmills.

The major exceptions to the imputation procedure for missing data were the detailed products and materials, metalworking operations and equipment inquiries. The value of products and the cost of materials, parts, supplies and containers for establishments not reporting the detailed inquiries were treated as "unspecified" materials or products in the appropriate tables. For metalworking operations and equipment, the statistics were based on establishments reporting data, with appropriate measures of coverage shown in the tables.

### 33. Confidentiality of Data for Individual Companies

The Bureau of the Census is prohibited by law from publishing any statistics that disclose information reported by individual companies. In the 1954 Census, as in 1947, preference was given to geographic regions and divisions over individual States in applying disclosure rules; similarly, States took precedence over standard metropolitan areas, while such areas were given preference over counties, and counties over cities. In tables showing industry detail, major industry group (2-digit) totals were given preference over industry group (3-digit) totals which, in turn, had precedence over individual (4-digit) industries. Similarly, in product tables, 4-digit product groupings took precedence over 5-digit product classes; the latter were given precedence over individual 7-digit products.

Such order-of-precedence was used because (1) it was considered preferable to show regional data for an industry, even at the cost of withholding data for another (usually the least important) State in a region, rather than to show all publishable data for the individual States and group the disclosure States throughout the United States in an "all other" category as was done in the 1939 and earlier censuses; and (2) by giving preference to industry group statistics over individual industries within each State, the extent to which individual States can be compared within the S.I.C. industry classification framework is greatly increased.

For each producing State not shown separately in Table 2 of the Industry Volume, a footnote gives the number of establishments and either an employment range or the actual employment figure. The employment is shown in a range if the State had less than 1,000 employees, if it represented the total for only one or two companies, or if the exact figure would permit deriving (by subtraction) the number of employees in other States represented by only one or two companies. In addition, figures for States with less than 100 employees are shown only in the footnote together with the number of establishments and employment in a range.

In the Area Volume, figures are not shown for a county or for an industry within a State, metropolitan area, or principal industrial county if the publication of such statistics would disclose information for individual companies. In table 3 of that Volume, however, the number of establishments is shown for every county and the number of employees for most counties represented by three or more companies. Moreover, all counties having manufacturing establishments are included in table 7, showing for each county the distribution by employment size of establishments in each major industry group.

For industries with few establishments or considerable geographic concentration, it has frequently been necessary to use geographic regions broader than the traditional nine census divisions, in order to show all plants by some geographic group-



ing. For this purpose the following combinations of Census divisions have been used:

## NORTHEAST

New England  
Middle Atlantic

## SOUTH

South Atlantic  
East South Central  
West South Central

## NORTH CENTRAL

East North Central  
West North Central

## WEST

Mountain  
Pacific

## 34. Indexes of Physical Volume of Production

The Bureau of the Census, in collaboration with the Federal Reserve Board and the Bureau of Labor Statistics, is calculating indexes of the physical volume of manufacturing production for 1954 relative to 1947, primarily from the product and industry statistics published in Volume II, Industry Statistics, of the 1954 Census of Manufactures. In addition to the index for all manufacturing, separate indexes are published for over half the industries (representing more than three-quarters of the value added by manufacture) and for most of the major industry groups. The present calculations represent a continuation of the indexes for 1947 prepared jointly by the Census Bureau and the Federal Reserve Board and those for the period 1899-1939 constructed by

the National Bureau of Economic Research mainly from Census of Manufactures data. The indexes are published in the form of a separate report.

## 35. Abbreviations

The following abbreviations and symbols occur frequently in tables and footnotes:

...	zero
xxx	Not applicable
NA	Not available
n.e.c.	Not elsewhere classified
lin.	linear
equiv.	equivalent
hp	horsepower
kwh	kilowatt-hours
D	Withheld to avoid disclosing figures for individual companies
S.I.C.	Standard Industrial Classification

Other abbreviations, such as lb., gal., yd., doz., and bbl., are used in the customary sense. Where the term "tons" only is used, it refers to short tons of 2,000 pounds; where the figures are expressed in tons of 2,240 pounds, the unit of measure is specified as "long tons" or "gross tons."







## Chapter I.—General Summary



## GENERAL SUMMARY

Table 1A.—MANUFACTURING EMPLOYMENT IN THE UNITED STATES: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Year <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative and auxiliary units	
	(Number)	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
1954.....	16,125,550	65,976,667	15,651,294	62,993,321	474,256	2,983,346
1953 <sup>2</sup> .....	17,093,004	68,590,424	16,693,076	66,492,872	399,928	2,097,552
1952 <sup>2</sup> .....	16,061,041	61,140,549	15,732,722	59,598,225	<sup>3</sup> 328,319	<sup>3</sup> 1,542,324
1951 <sup>2</sup> .....	15,637,957	56,283,787	15,309,638	54,741,463	328,319	1,542,324
1950 <sup>2</sup> .....	14,769,931	47,892,894	14,467,149	46,642,786	302,782	1,250,108
1949 <sup>2</sup> .....	13,880,050	42,752,032	13,566,949	41,482,008	313,101	1,270,024

<sup>1</sup>Employment data for administrative offices and auxiliaries are not available for the years prior to 1949. See Table 1B for employment data for earlier years.

<sup>2</sup>The employment figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for these years. The employment figures for administrative and auxiliary units were compiled chiefly from Bureau of Old-Age and Survivors Insurance records and are not strictly comparable with the figures for these units that were collected by the Bureau of the Census for the year 1954.

<sup>3</sup>The 1951 data are shown for 1952 since auxiliary and administrative unit data were not compiled for 1952.



## GENERAL SUMMARY

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Table 1B.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS IN THE UNITED STATES: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction.)

Year <sup>1</sup>	Estab- lish- ments	Proprie- tors and firm members	All employees <sup>2</sup>		Production workers			Value added by manu- facture <sup>4</sup>	Capital expendi- tures, new	Horsepower of prime movers and electric motors <sup>5</sup>	Index of physical produc- tion 1939=100	
			Number <sup>3</sup>	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
	(Number)	(Number)						(\$1,000)	(\$1,000)	(1,000 HP)		
Factories, excluding hand and neighborhood industries:												
1954.....	286,817	197,850	15,651,924	62,993,321	12,373,030	24,341,239	44,595,457	116,912,526	7,818,155	108,362	<sup>6</sup> 221	
1953 <sup>7</sup> .....	285,000	(NA)	16,693,076	66,492,872	13,500,934	27,065,569	48,979,102	121,659,136	7,541,606	(NA)	(NA)	
1952 <sup>7</sup> .....	267,000		15,732,722	59,598,225	12,706,032	25,617,613	43,763,640	109,162,079	7,525,923		(NA)	
1951 <sup>7</sup> .....	262,000		15,309,638	54,741,463	12,508,914	25,263,764	40,654,832	102,085,814	7,205,059		(NA)	
1950 <sup>7</sup> .....	260,000		14,467,149	46,642,786	11,778,803	23,716,536	34,600,025	89,749,765	5,110,262		(NA)	
1949 <sup>7</sup> .....	(NA)		13,566,949	41,482,008	11,016,301	21,769,728	30,253,971	75,366,527	5,066,941		(NA)	
1947.....	240,807	188,948	14,293,963	39,695,558	11,917,884	24,316,465	30,243,971	74,290,475	5,998,099	49,893	174	
1939 <sup>8</sup> .....	173,802	<sup>9</sup> 123,655	<sup>10</sup> 9,527,306	<sup>10</sup> 12,706,102	7,808,205	(NA)	8,997,515	24,487,304	(NA)		100	
1937.....	166,794	99,268	9,786,402	12,829,749	8,569,231		10,112,883	25,173,539			101	
1935.....	167,916	81,521	8,262,295	9,564,754	7,203,794		7,311,329	18,552,553			81	
1933.....	139,325	72,267	<sup>11</sup> 6,557,925	<sup>11</sup> 6,237,800	5,787,611		4,940,146	14,007,540			61	
1931.....	171,450	(NA)	(NA)	(NA)	6,163,144		6,688,541	18,600,532		70		
1929.....	206,663	132,686	9,659,742	14,284,282	8,369,705	(NA)	10,884,919	30,591,435	(NA)	41,122	98	
1927.....	187,629	132,151	9,072,052	13,123,135	7,848,070		10,099,465	26,325,394		(NA)	85	
1925.....	183,877	132,971	9,142,417	12,957,707	7,871,409		9,979,649	25,667,624		34,359	80	
1923.....	192,096	147,958	9,474,658	12,996,460	8,194,170		10,148,624	24,569,487		(NA)	75	
1921.....	192,059	172,291	7,557,364	9,870,199	6,475,474		7,451,299	17,252,775		(NA)	52	
1919.....	270,231	249,865	9,836,801	12,426,902	8,464,916	(NA)	9,664,009	23,841,624	(NA)	28,398	60	
1914.....	268,436	258,560	7,514,186	5,015,977	6,602,287		3,782,322	9,385,622		21,561	50	
1909.....	264,810	272,421	7,012,066	4,105,470	6,261,736		3,205,213	8,160,075		18,063	42	
1904.....	213,444	225,115	5,674,957	2,990,937	5,181,660		2,440,851	6,019,171		13,032	33	
1899.....	204,754	(NA)	4,850,019	2,258,654	4,501,919		1,892,574	4,646,981		9,811	27	
Factories and hand and neighborhood industries:												
1899.....	509,490	(NA)	5,478,301	2,595,566	5,097,562	(NA)	2,206,547	5,474,892	(NA)	10,989	(NA)	
1889.....	353,864		4,586,494	2,209,058	4,129,355		1,820,854	4,102,301		<sup>12</sup> 5,939		
1879.....	253,852		(NA)	(NA)	(NA)		2,732,595	947,954		1,972,756		<sup>12</sup> 3,411
1869.....	252,148						2,053,996	620,467		1,395,119		<sup>12</sup> 2,346
1859.....	140,433						1,311,246	378,879		854,257		(NA)
1849.....	123,025						957,059	236,755		463,983		(NA)

NA Not available.

<sup>1</sup>The 1954 figures include data for establishments engaged in the processing and distribution of fluid milk, Industry Group 202, Dairy Products. These establishments were not included in the figures for the Annual Survey years 1949-1953 or earlier Census years. In addition, the 1954 Census and Annual Survey years include data for Logging Camps and Contractors, Industry 2411, which were not included within the scope of the 1947 and earlier Censuses. See footnotes to Table 2A for comparable 1954 and 1947 totals. There were also a number of changes in the definition of manufacturing industries during earlier Census years that affect the comparability of the historical series. Among the more important of these were: figures for 1935 and later years exclude data for "Railroad repair shops" and "Manufactured gas" which were included in 1899-1933 figures; the minimum size of establishment included for 1954-1947 was one employee, for 1939-1921 manufacturing establishments reporting value of shipments of \$5,000 or more were within scope whereas for 1919 and earlier years the cutoff was \$500. (This change in procedure has not appreciably affected the comparability of the historical data except for the figures on number of establishments.)

<sup>2</sup>The figures for 1939-1954 include data for employees at manufacturing establishments who were engaged in distribution and in construction work. The extent to which data for such employees were included in the figures for earlier years is not known.

<sup>3</sup>The 1949 thru 1954 "Average number of employees" is based on reported employment totals for the payroll periods nearest the 15th of March, May, August, and November except for seasonal industries in 1954 when a 12 month average was used. For 1947, the number of "All employees" represents the average of 12 monthly figures; for 1939 and earlier years, it represents the sum of the average number of production workers for the year and the number of nonproduction workers reported for one payroll period (usually in October).

<sup>4</sup>Value of products shipped less cost of materials, supplies, fuel, electric energy, and contract work. For 1849-1933, cost of contract work was not subtracted from value of products in calculating value added by manufacture.

<sup>5</sup>Driven by purchased energy.

<sup>6</sup>Estimated figure based on Federal Reserve Board data.

<sup>7</sup>Data for 1949 thru 1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period.

<sup>8</sup>The figures for 1939, but not for earlier years, have been revised on the basis of retabulation of the returns to exclude data for establishments classified as manufacturing in 1939 and prior years but classified as nonmanufacturing beginning with 1947. Value added by manufacture for 1939, prior to revision and on a basis comparable with 1937 and previous years, was \$24.7 billion.

<sup>9</sup>Not revised to exclude data for establishments classified as manufacturing in 1939 and prior years but classified as nonmanufacturing beginning with 1947.

<sup>10</sup>The 1939 figures for "all employees" were revised on the basis of estimates rather than by retabulation of the 1939 reports. The estimates were made in the following manner: for number of employees, by multiplying the retabulated figure for number of production workers by the ratio of all employees to production workers computed from the unrevised 1939 statistics; for salaries and wages, by multiplying the retabulated wage figure by the ratio for salaries and wages also derived from the unrevised 1939 statistics.

<sup>11</sup>Not including data for salaried officers of corporations and their salaries and, therefore, not strictly comparable with figures for other years.

<sup>12</sup>Does not include data for electric motors.



## GENERAL SUMMARY

Table 2A.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS

(For explanation of column captions see Introduction.)

Code	Industry group and industry	Primary products specialization ratio <sup>1</sup>	Cover-age ratio <sup>2</sup>	Estab-lish-ments (Number)	Pro-prie-tors and firm mem-bers (Number)	1954					Value added by manu-facture, unad-justed <sup>4</sup> (\$1,000)
						All employees		Production workers			
						Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>3</sup>	Man-hours (1,000)	Wages (\$1,000)	
	All industries, total.....			286,817	197,850	15,651,294	62,993,321	12,373,030	24,341,239	44,595,457	116,912,526
20	Food and kindred products.....			42,374	30,738	1,647,204	6,201,500	1,138,239	2,316,661	3,759,071	13,400,218
21	Tobacco manufactures.....			627	376	94,863	259,689	87,073	162,988	219,736	988,001
22	Textile mill products.....			8,070	3,060	1,037,440	3,032,490	947,502	1,821,075	2,526,564	4,748,586
23	Apparel and related products.....			31,372	23,044	1,190,064	3,201,795	1,069,867	1,898,999	2,521,135	5,147,371
24	Lumber and wood products.....			41,484	41,987	645,936	1,933,523	581,920	1,106,955	1,604,859	3,188,409
25	Furniture and fixtures.....			10,273	7,323	340,694	1,197,376	286,649	571,294	892,891	1,966,410
26	Pulp, paper and products.....			5,004	1,360	530,210	2,217,420	435,727	919,940	1,656,720	4,580,944
27	Printing and publishing.....			32,531	24,329	804,386	3,625,133	499,666	961,465	2,115,344	6,264,558
28	Chemicals and products.....	(NA)	(NA)	11,075	3,523	739,389	3,407,199	501,272	1,016,053	2,005,627	9,443,629
29	Petroleum and coal products.....			1,381	292	215,843	1,101,814	163,811	322,947	778,408	2,582,613
30	Rubber products.....			1,406	523	246,526	1,059,337	196,238	377,414	775,459	1,903,702
31	Leather and leather products.....			4,845	2,565	356,578	1,027,314	321,161	586,857	833,694	1,637,417
32	Stone, clay, and glass products.....			11,162	7,843	491,814	1,938,085	412,031	827,012	1,496,029	3,821,659
33	Primary metal products.....			5,838	2,402	1,117,059	5,097,466	938,511	1,812,027	3,985,548	9,372,910
34	Fabricated metal products.....			22,516	13,908	1,019,406	4,397,337	821,172	1,652,366	3,174,186	7,596,275
35	Machinery, except electrical.....			25,601	16,558	1,541,675	7,190,563	1,171,323	2,369,610	4,979,972	12,338,923
36	Electrical machinery.....			5,758	1,936	959,126	3,950,994	722,443	1,422,339	2,645,588	7,403,134
37	Transportation equipment.....			5,348	2,976	1,704,572	8,295,773	1,327,078	2,714,603	6,003,250	13,925,983
38	Instruments and related products.....			3,142	1,635	272,586	1,200,322	195,597	391,403	759,459	2,128,702
39	Miscellaneous manufactures <sup>9</sup> .....			17,010	11,472	695,917	2,658,182	555,746	1,089,229	1,861,873	4,473,050
20	Food and kindred products.....	(NA)	(NA)	42,374	30,738	1,647,204	6,201,500	1,138,239	2,316,661	3,759,071	13,400,218
201	Meat products.....	97	99	4,992	4,180	311,366	1,234,617	243,135	504,344	898,665	1,930,974
2011	Meat packing plants <sup>11</sup> .....	98	87	2,367	2,021	220,194	942,970	167,815	354,779	687,878	1,394,486
2013	Prepared meats <sup>12</sup> .....	83	1028	1,316	990	44,997	186,939	33,767	70,034	124,327	330,312
2015	Poultry dressing.....	96	97	1,309	1,169	46,173	104,706	41,551	79,530	86,459	206,175
202	Dairy products.....	99	99	11,503	8,682	283,431	1,086,291	153,196	332,986	507,163	2,256,738
2021	Creamery butter.....	74	77	1,262	431	21,019	65,601	15,060	32,756	42,920	136,953
2022	Natural cheese.....	83	74	1,419	1,051	13,914	42,363	11,343	25,672	32,826	88,716
2023	Concentrated milk.....	82	68	359	66	13,310	50,513	10,900	24,583	39,338	170,566
2024	Ice cream and ices.....	93	70	1,587	1,072	36,488	134,171	20,982	42,422	64,193	327,898
2025	Special dairy products.....	90	56	187	61	7,300	26,595	5,847	11,701	20,050	56,965
2026	Fluid milk.....	82	94	1,695	1,873	14,086	48,085	9,074	18,928	27,692	98,940
2027	Fluid milk and other products.....	82	94	4,994	4,128	177,311	718,960	79,987	176,922	280,142	1,376,698
203	Canned and frozen foods.....	95	97	3,513	2,051	199,238	573,057	175,366	332,414	442,398	1,301,195
2031	Canned seafood.....	96	94	239	134	15,131	37,062	14,125	20,995	31,147	70,387
2032	Cured fish.....	97	91	90	99	1,726	5,709	1,425	2,803	3,686	10,512
2033	Canned fruits and vegetables.....	90	94	1,758	909	119,836	354,746	105,613	206,076	276,063	830,019
2034	Dehydrated fruits and vegetables.....	95	97	148	92	7,011	22,026	6,102	11,678	16,477	55,176
2035	Pickles and sauces.....	80	75	717	493	21,895	67,084	18,230	35,977	47,594	140,925
2036	Packaged seafood.....	94	95	295	245	12,200	27,190	11,232	18,779	21,549	45,657
2037	Frozen fruits and vegetables.....	88	84	266	79	21,436	59,238	18,638	36,104	45,879	148,517
204	Grain mill products.....	99	90	3,352	2,257	109,944	434,858	79,383	173,331	285,775	1,217,055
2041	Flour and meal.....	94	84	803	555	28,969	119,844	21,447	47,919	83,813	315,143
2042	Prepared animal feeds.....	95	90	2,292	1,606	59,890	225,199	41,290	91,220	138,520	584,135
2043	Cereal breakfast foods.....	77	80	46	6	11,534	51,002	9,149	18,211	38,062	172,283
2044	Rice milling.....	99	100	80	28	3,964	13,367	3,129	7,145	8,397	42,359
2045	Flour mixes.....	71	45	131	62	5,585	25,446	4,366	8,834	16,982	103,134
205	Bakery products.....	99	99	6,414	5,745	291,100	1,124,426	178,778	362,381	587,592	1,977,188
2051	Bread and related products.....	98	99	6,103	5,540	246,337	973,546	143,077	293,871	477,972	1,568,933
2052	Biscuit and crackers.....	97	93	311	205	44,763	150,880	35,700	68,509	109,619	408,254
206	Sugar.....	100	100	137	21	30,166	117,834	25,083	53,204	92,903	250,759
2061	Raw cane sugar.....	1096	97	49	21	3,078	8,949	2,719	7,231	7,307	15,431
2062	Cane-sugar refining.....	10100	100	23	...	16,068	66,431	12,932	26,061	50,350	138,971
2063	Beet sugar.....	1099	100	65	...	11,019	42,453	9,431	19,911	35,245	96,357
207	Candy and related products.....	97	95	1,490	1,078	80,425	254,988	65,917	129,262	181,104	596,211
2071	Confectionery products.....	95	96	1,434	1,074	66,799	201,706	55,220	107,952	143,850	422,314
2072	Chocolate and cocoa products.....	98	89	28	3	8,465	33,133	6,677	13,503	23,219	81,745
2073	Chewing gum.....	1095	98	28	1	5,161	20,149	4,019	7,806	14,034	92,150
208	Beverages.....	99	100	5,384	3,334	202,795	867,680	118,755	231,890	460,438	2,237,428
2081	Bottled soft drinks.....	98	99	4,643	3,166	91,616	319,879	41,575	80,584	109,519	635,045
2082	Beer and ale.....	100	100	301	13	81,346	420,546	53,698	105,923	261,497	1,100,741
2083	Malt.....	100	100	45	5	2,603	14,627	2,036	4,096	10,167	48,149
2084	Wines and brandy.....	1090	96	262	135	5,724	23,258	4,328	8,393	13,749	96,749
2085	Distilled liquor, except brandy.....	99	100	133	15	21,505	89,367	17,117	32,892	65,504	356,741

See footnotes at end of table.



## GENERAL SUMMARY

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BY INDUSTRY GROUPS AND INDUSTRIES: 1954 AND 1947

For definitions of industries, see Appendix A—Industry Descriptions<sup>1</sup>

1954—Continued		1947											Code	
Value of shipments	Capital expenditures, new <sup>5</sup>	Primary products specialization ratio <sup>1</sup>	Coverage ratio <sup>2</sup>	Establishments	Proprietors and firm members	All employees		Production workers			Value added by manufacture, unadjusted <sup>4</sup>	Value of shipments		Capital expenditures, new <sup>5</sup>
						Number <sup>3</sup>	Payroll	Number <sup>3</sup>	Man-hours	Wages				
(6)	7,818,155			7240,807	7188,948	714,293,963	739,695,558	711,917,884	724,316,465	730,243,971	774,290,475		75,998,099	
	789,050			(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)		(8)	20
	28,018			1,086	874	111,782	205,838	103,289	198,323	175,318	641,356		35,645	21
	225,914			8,157	4,068	1,232,293	2,832,706	1,146,293	2,306,636	2,447,857	5,322,899		367,510	22
	76,552			30,963	28,430	1,081,670	2,525,183	973,029	1,811,120	2,014,758	4,439,597		83,945	23
	217,361			(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)		(8)	24
	61,945			7,551	6,112	316,273	806,948	277,909	583,572	641,673	1,346,277		77,441	25
	532,723			4,100	1,289	454,075	1,294,535	391,715	857,344	1,018,339	2,913,197		406,779	26
	236,897			28,978	22,685	715,120	2,276,262	437,880	888,254	1,317,573	4,248,773		226,368	27
(6)	926,613	(NA)	(NA)	10,019	4,034	626,418	1,898,472	464,144	974,684	1,236,012	5,317,001	(6)	804,958	28
	753,184			1,411	398	207,618	725,983	165,405	354,089	543,362	1,990,944		399,754	29
	128,431			872	366	258,237	781,378	213,823	423,667	613,189	1,299,491		109,783	30
	28,053			5,308	3,496	383,264	873,746	348,615	677,001	725,308	1,533,028		31,301	31
	300,647			11,643	10,323	461,037	1,206,903	404,930	838,320	991,966	2,298,521		285,066	32
	831,095			5,364	2,893	1,158,158	3,601,791	1,012,008	2,053,663	2,982,736	5,733,028		592,177	33
	432,491			16,777	12,348	973,174	2,833,684	823,012	1,694,666	2,189,032	4,920,304		304,822	34
	713,808			17,910	13,159	1,552,135	4,830,125	1,248,921	2,591,220	3,610,392	7,833,970		517,589	35
	340,677			3,970	1,727	796,357	2,258,657	634,661	1,277,994	1,636,714	3,860,235		244,606	36
	924,646			3,703	2,534	1,174,498	3,694,932	981,103	1,961,398	2,920,813	5,841,722		354,974	37
	94,008			2,605	1,661	244,872	706,055	194,303	389,940	502,168	1,140,499		56,000	38
	176,036			14,148	11,849	463,390	1,205,212	396,002	811,288	917,572	2,066,259		106,960	39
(6)	789,050	(NA)	(NA)	(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)	20
(6)	91,362	(NA)	(NA)	3,971	3,249	274,493	782,182	220,702	489,213	584,703	1,279,742	(6)	85,036	201
9,905,687	64,976	(10)	(10)	2,154	2,058	208,438	623,058	167,135	376,007	468,962	977,144	8,969,876	67,567	2011
1,415,382	15,617	(10)	(10)	1,264	835	44,485	122,902	34,491	74,584	86,656	234,758	1,600,687	11,565	2013
1,257,892	10,768	88	88	553	356	21,570	36,222	19,076	38,622	29,085	67,840	478,993	5,904	2015
(6)	163,123													202
926,414	13,566													2021
551,159	9,317													2022
683,212	9,818	(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)	2023
727,433	25,733													2024
295,337	5,776													2025
352,767	7,496													2026
4,233,983	91,414													2027
(6)	77,100	(NA)	(NA)	3,825	2,784	201,109	413,041	180,651	351,658	334,284	914,184	(6)	105,885	203
238,382	2,083	91	96	254	225	20,153	37,207	18,929	30,147	31,755	96,807	226,519	5,206	2031
35,536	646	97	88	127	117	2,431	5,111	2,143	3,789	3,763	9,948	31,077	430	2032
2,228,947	49,916	91	94	2,265	1,545	135,851	283,859	121,921	243,454	230,883	608,768	1,640,754	77,888	2033
192,200	3,421	96	90	146	136	3,976	8,145	3,662	7,318	6,834	18,155	51,079	1,750	2034
481,507	7,579	84	69	742	610	21,335	47,177	18,226	38,004	35,216	121,129	357,860	11,445	2035
164,625	2,813	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	2036
417,140	10,638	1089	1084	291	151	17,363	31,542	15,770	28,946	25,833	59,377	155,076	9,166	2037
(6)	65,348	(NA)	(NA)	4,206	3,531	113,217	311,736	86,063	199,048	216,229	1,001,692	(6)	71,398	204
1,858,888	15,240	92	92	1,243	1,017	39,597	119,533	30,821	74,691	86,000	410,774	2,526,646	27,784	2041
2,702,267	36,812	95	89	2,688	2,363	55,152	142,562	40,115	92,368	93,124	393,049	2,112,241	34,791	2042
345,843	4,403	68	87	64	25	11,276	30,689	9,496	19,540	25,160	130,188	43,466	3,842	2043
266,861	3,538	100	100	88	59	4,072	9,999	3,267	7,788	6,700	43,432	224,741	3,125	2044
254,136	5,353	81	17	123	67	3,120	8,953	2,364	4,661	5,245	24,249	78,442	1,856	2045
(6)	89,630	99	99	7,122	7,054	278,784	763,999	187,045	402,804	428,417	1,362,985	(6)	105,913	205
3,067,017	75,725	98	99	6,796	6,863	232,726	654,776	149,519	324,607	350,056	1,098,012	2,403,589	91,672	2051
757,193	13,904	96	93	326	191	46,058	109,223	37,526	78,197	78,361	264,973	540,222	14,241	2052
(6)	19,123	100	100	181	62	35,423	91,291	30,749	69,226	75,529	233,869	(6)	23,483	206
64,588	2,659	1097	100	82	62	4,635	8,550	4,022	10,217	6,597	17,709	60,135	5,061	2061
864,113	10,553	10100	100	25	...	17,376	47,172	15,093	33,074	38,974	98,112	818,430	5,902	2062
291,248	5,910	100	100	74	...	13,412	35,569	11,634	25,935	29,958	118,048	262,872	12,520	2063
(6)	21,272	(NA)	(NA)	1,754	1,444	91,710	214,558	78,063	158,210	155,666	587,065	(6)	36,210	207
992,597	13,399	97	97	1,686	1,423	75,165	167,886	64,883	130,694	123,046	413,852	944,925	25,602	2071
432,842	3,636	1099	100	31	7	9,605	27,480	7,708	15,933	19,174	98,276	349,907	6,013	2072
158,081	4,235	(D)	(D)	37	14	6,940	19,192	5,472	11,583	13,446	74,937	148,286	4,595	2073
(6)	176,602	(NA)	(NA)	6,755	5,605	202,574	598,654	138,515	301,080	375,921	1,849,145	(6)	218,312	208
1,113,077	47,731	99	99	5,618	5,172	79,397	194,305	41,214	90,882	83,291	420,711	748,196	66,748	2081
1,857,053	114,534	100	99	440	37	82,534	292,405	63,668	142,001	210,228	807,177	1,316,085	110,892	2082
201,988	3,257	100	100	53	10	2,524	9,550	2,069	4,466	6,896	53,885	256,230	6,864	2083
(6)	2,216	1090	100	418	337	7,697	21,896	5,824	11,717	13,681	95,015	(6)	10,905	2084
711,313	8,863	99	99	226	49	30,422	80,498	25,740	52,014	61,825	472,357	870,235	22,903	2085

## GENERAL SUMMARY

Table 2A.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS

(For explanation of column captions, see Introduction.)

Code	Industry group and industry	1954								
		Primary products specialization ratio <sup>1</sup>	Coverage ratio <sup>2</sup>	Establishments (Number)	Proprietors and firm members (Number)	All employees		Production workers		
						Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>3</sup>	Man-hours (1,000)	Value added by manufacture, undjusted <sup>4</sup> (\$1,000)
	Food and kindred products—Continued									
209	Miscellaneous food preparations.....	95	89	5,589	3,390	138,735	507,745	98,623	196,845	303,029
2091	Leavening compounds.....	89	90	43	9	2,685	12,246	1,987	3,840	8,696
2092	Shortening and cooking oils.....	85	89	102	27	9,398	42,414	6,755	14,016	27,571
2093	Margarine.....	90	62	33	2	2,626	10,463	1,835	3,681	6,314
2094	Corn wet milling.....	91	96	58	24	13,565	60,030	10,584	21,008	43,172
2095	Flavorings.....	91	87	558	231	10,593	45,060	6,543	12,402	20,308
2097	Manufactured ice.....	100	97	1,963	1,203	20,854	61,811	12,880	27,975	35,593
	Macaroni and spaghetti.....	98	95	233	183	7,058	24,278	5,276	10,216	14,465
2099	Food preparations, n.e.c.....	94	86	2,599	1,711	71,952	251,440	52,761	103,702	146,907
	Tobacco manufactures.....	(NA)	(NA)	627	376	94,863	259,689	87,073	162,988	219,736
2111	Cigarettes.....	99	100	19	...	29,987	103,779	27,694	53,643	91,067
2121	Cigars.....	99	100	410	323	38,494	89,259	36,076	65,720	78,455
2131	Chewing and smoking tobacco.....	96	89	65	33	7,535	23,372	6,444	11,729	17,229
2141	Tobacco stemming and redrying.....	100	99	133	20	18,846	43,278	16,857	31,894	32,983
22	Textile mill products.....	(NA)	(NA)	8,070	3,060	1,037,440	3,032,490	947,502	1,821,075	2,526,564
221	Woolen and worsted manufactures.....	97	93	644	126	91,535	305,766	82,090	162,494	250,221
2211	Scouring and combing plants.....	83	60	74	6	7,013	24,300	6,363	12,616	20,134
2212	Yarn mills, wool, except carpet.....	93	85	171	37	17,840	51,730	16,511	31,150	44,085
2213	Woolen and worsted fabrics.....	92	95	343	71	62,466	214,246	55,702	111,650	174,696
2216	Finishing wool textiles.....	(10)	(10)	56	12	4,215	15,489	3,513	7,076	11,304
222	Yarn and thread mills.....	95	93	591	99	111,024	267,620	104,016	189,094	231,616
2222	Yarn throwing mills.....	93	79	137	33	11,840	32,046	10,849	21,327	26,790
2223	Thread mills.....	88	94	97	28	13,908	38,281	12,221	22,807	29,267
2224	Yarn mills, cotton system <sup>14</sup> .....	95	92	357	38	85,275	197,292	80,944	144,959	175,558
223	Broad-woven fabrics.....	95	88	1,060	184	386,188	1,055,884	363,666	704,516	937,125
2233	Cotton broad-woven fabrics.....	94	84	582	68	296,193	783,011	280,546	537,531	702,649
2234	Synthetic broad-woven fabrics.....	87	90	478	116	89,994	272,872	83,120	166,984	234,476
2241	Narrow fabric mills.....	96	94	513	222	25,676	79,063	22,862	44,962	61,456
225	Knitting mills.....	(NA)	(NA)	3,045	1,608	221,364	597,319	201,977	371,029	488,095
2251	Full-fashioned hosiery mills.....	1090	1090	789	409	60,150	178,454	55,023	101,925	151,619
2252	Seamless hosiery mills.....	96	93	609	306	63,350	135,481	59,656	105,905	117,455
2253	Knit outerwear mills.....	93	73	1,083	722	46,403	139,182	41,345	75,955	104,490
2254	Knit underwear mills.....	88	39	149	41	31,262	77,501	28,248	51,204	63,095
2255	Knit glove mills.....	86	20	29	10	2,025	4,871	1,855	3,258	3,966
2256	Knit fabric mills.....	94	91	340	100	16,812	57,878	14,680	30,560	44,621
2259	Knitting mills, n.e.c.....	62	75	46	20	1,359	3,950	1,167	2,218	2,846
2261	Finishing textiles, except wool.....	86	41	725	183	79,308	292,324	68,485	142,839	228,262
227	Carpets and rugs.....	95	98	327	165	51,194	185,340	43,756	86,096	145,202
2271	Wool carpets and rugs.....	1090	1095	98	27	30,076	111,009	25,336	48,852	86,199
2273	Carpets and rugs, except wool.....	95	83	213	138	11,479	30,735	10,178	19,862	23,085
2274	Hard-surface floor coverings.....	85	97	16	...	9,638	43,596	8,242	17,382	35,918
228	Hats (except cloth and millinery).....	98	98	201	89	12,988	40,897	11,239	20,411	32,169
2281	Fur-felt hats and hat bodies.....	92	93	91	41	8,180	27,258	7,028	12,248	21,317
2282	Wool-felt hats and hat bodies.....	82	96	32	19	1,750	4,951	1,552	2,809	3,862
2283	Straw hats.....	87	75	48	16	2,294	6,262	1,992	4,103	5,252
2284	Hatter's fur.....	95	100	30	13	762	2,426	666	1,250	1,736
229	Miscellaneous textile goods.....	93	90	964	384	58,159	208,274	49,407	99,630	152,413
2291	Felt goods, n.e.c.....	90	92	72	23	5,987	23,376	5,182	10,767	18,083
2292	Lace goods.....	99	94	138	67	7,442	26,117	6,568	12,521	20,492
2293	Padding and upholstery filling.....	91	90	200	101	9,111	33,031	7,777	16,031	24,489
2294	Processed textile waste.....	96	93	203	79	5,768	17,570	4,856	10,142	12,717
2295	Coated fabric, except rubberized.....	86	82	106	22	8,547	41,699	6,576	14,711	27,386
2296	Cordage and twine.....	90	89	137	46	12,327	37,374	10,709	20,568	28,128
2299	Textile goods, n.e.c.....	88	81	108	46	8,975	29,106	7,736	14,888	21,116
23	Apparel and related products.....	(NA)	(NA)	31,372	23,044	1,190,064	3,201,795	1,069,867	1,898,999	2,521,135
231	Men's and boys' suits and coats.....	91	96	1,426	921	121,686	382,480	109,135	191,935	307,160
2311	Men's and boys' suits and coats.....	91	96	1,310	851	119,001	374,795	106,720	187,579	301,062
2312	Suit and coat findings.....	98	95	116	70	2,684	7,685	2,414	4,356	6,097
232	Men's and boys' furnishings.....	94	81	3,901	2,434	285,594	638,732	263,003	469,927	522,918
2321	Men's dress shirts and nightwear.....	90	85	971	411	108,304	236,726	100,262	181,083	196,683
2322	Men's and boys' underwear.....	88	28	82	29	9,385	18,923	8,827	15,325	16,289
2323	Men's and boys' neckwear.....	98	92	403	321	9,483	27,797	8,051	13,789	19,056
2325	Men's and boys' cloth hats.....	97	87	415	366	8,079	21,457	7,451	14,011	17,977
2326	Hat and cap materials.....	99	94	63	28	936	2,941	796	1,424	2,145
2327	Separate trousers.....	89	74	798	608	51,652	118,688	48,315	86,421	99,562
2328	Work shirts.....	97	35	52	20	6,992	11,468	6,789	11,425	10,632
2329	Men's and boys' clothing, n.e.c.....	99	98	1,117	651	90,759	200,730	82,510	146,446	160,573

See footnotes at end of table.



## GENERAL SUMMARY

7

BY INDUSTRY GROUPS AND INDUSTRIES: 1954 AND 1947—Continued

For definitions of industries, see Appendix A—Industry Descriptions)

1954—Continued		1947													Code
Value of shipments	Capital expenditures, new <sup>2</sup>	Primary products specialization ratio <sup>1</sup>	Coverage ratio <sup>2</sup>	Establishments	Proprietors and firm members	All employees		Production workers			Value added by manufacture, unadjusted <sup>4</sup>	Value of shipments	Capital expenditures, new <sup>5</sup>		
						Number <sup>3</sup>	Payroll	Number <sup>3</sup>	Man-hours	Wages					
(\$1,000)	(\$1,000)			(Number)	(Number)		(\$1,000)		(1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	
( <sup>6</sup> )	85,487	(NA)	(NA)	6,693	4,531	151,790	384,418	108,568	236,808	241,547	1,199,122	( <sup>6</sup> )	91,115	209	
71,185	1,604	(D)	(D)	48	14	3,066	8,944	2,364	4,902	6,804	46,494	72,295	1,230	2091	
935,338	10,971	82	96	100	53	8,003	24,550	5,931	12,267	16,298	162,146	884,713	7,216	2092	
192,343	1,478	81	73	27	...	2,567	8,337	1,806	4,012	5,279	43,750	214,598	1,114	2093	
458,442	16,391	88	96	55	17	12,324	41,114	10,158	23,032	32,688	127,143	459,978	20,090	2094	
446,056	6,642	93	89	606	322	11,726	37,149	7,242	14,626	17,720	158,333	313,573	7,626	2095	
143,280	7,761	100	98	3,432	2,244	46,462	103,038	29,048	70,741	63,026	226,584	273,415	20,345	2097	
143,656	2,469	1098	99	226	217	8,043	18,763	6,628	14,171	13,134	42,049	112,094	5,057	2098	
3,255,967	38,168	92	80	2,199	1,664	59,599	142,522	45,391	93,057	86,598	392,623	1,600,903	28,437	2099	
( <sup>6</sup> )	28,018	(NA)	(NA)	1,086	874	111,782	205,838	103,289	198,323	175,318	641,356	( <sup>6</sup> )	35,645	21	
1,640,950	20,362	96	100	28	...	27,674	63,204	25,553	49,196	54,986	368,417	1,131,891	16,546	2111	
339,452	2,884	99	100	822	789	47,068	76,344	44,512	84,008	68,402	143,145	311,401	4,449	2121	
161,739	1,205	98	86	73	32	11,139	22,676	9,725	19,630	17,616	57,571	140,142	2,519	2131	
1,043,213	3,566	100	98	163	53	25,901	43,614	23,499	45,489	34,314	72,223	957,807	12,131	2141	
( <sup>6</sup> )	225,914	(NA)	(NA)	8,157	4,068	1,232,293	2,832,706	1,146,293	2,306,636	2,447,857	5,322,899	( <sup>6</sup> )	367,510	22	
( <sup>6</sup> )	18,715	(NA)	(NA)	810	262	179,740	454,685	166,792	336,038	394,025	786,346	( <sup>6</sup> )	50,009	221	
94,168	2,391	(NA)	(NA)	56	19	8,412	24,105	7,757	17,202	20,572	36,920	75,557	3,218	2211	
251,614	3,302	90	81	200	79	33,178	75,380	31,463	61,857	66,443	127,808	336,956	6,613	2212	
890,281	11,714	90	97	495	134	132,348	338,928	122,432	245,468	293,962	599,534	1,355,209	39,249	2213	
32,788	1,307	(10)	(10)	59	30	5,802	16,272	5,140	11,511	13,048	22,084	28,889	929	2216	
( <sup>6</sup> )	30,256	(NA)	(NA)	685	195	150,909	300,554	143,587	279,797	270,177	560,103	( <sup>6</sup> )	36,647	222	
99,227	3,211	(NA)	(NA)	122	37	14,866	28,401	13,800	26,871	24,323	45,970	64,173	4,659	2222	
183,746	8,543	85	(NA)	89	40	14,652	33,240	13,126	26,494	26,930	67,372	154,269	4,208	2223	
1,030,627	18,501	(NA)	(NA)	474	118	121,391	238,913	116,661	226,432	218,924	446,761	1,162,607	27,780	2224	
( <sup>6</sup> )	68,195	(NA)	(NA)	1,082	277	427,844	937,818	407,462	832,518	850,056	1,937,020	( <sup>6</sup> )	121,653	223	
2,789,621	55,200	(NA)	(NA)	575	50	330,196	705,746	316,288	637,863	645,065	1,448,972	2,912,651	78,772	2233	
1,142,629	12,995	85	(NA)	507	227	97,648	232,072	91,174	194,655	204,991	488,048	1,002,923	42,881	2234	
250,162	4,802	95	98	480	277	28,080	65,011	25,295	50,586	52,494	110,571	215,194	5,670	2241	
( <sup>6</sup> )	39,982	(NA)	(NA)	3,121	2,106	229,303	490,370	211,796	408,304	411,854	850,963	( <sup>6</sup> )	81,765	225	
( <sup>6</sup> )	7,698	1090	1090	738	371	70,034	178,062	65,148	125,719	156,320	319,369	( <sup>6</sup> )	38,588	2251	
423,251	12,986	96	91	618	418	64,913	105,711	61,443	114,618	91,939	163,899	327,007	17,122	2252	
544,129	9,853	91	82	1,199	1,094	34,543	80,674	30,383	57,755	59,590	145,370	330,474	5,727	2253	
256,290	2,982	87	70	172	52	40,579	80,520	37,546	74,111	67,990	134,399	295,411	6,853	2254	
11,787	(13)	91	34	44	22	4,798	8,509	4,555	8,666	7,522	13,446	24,318	651	2255	
377,383	6,214	93	88	306	113	13,460	34,681	11,849	25,667	26,755	70,202	197,454	12,731	2256	
15,805	(13)	98	89	44	36	976	2,213	872	1,768	1,738	4,278	10,587	93	2259	
998,144	21,900	(NA)	(NA)	641	272	77,985	218,933	69,035	148,266	176,094	359,270	531,400	29,668	2261	
( <sup>6</sup> )	23,916	(NA)	(NA)	295	200	57,079	157,507	50,768	107,052	131,008	330,580	( <sup>6</sup> )	21,490	227	
( <sup>6</sup> )	12,605	1090	95	95	51	40,096	111,558	35,560	74,203	92,656	217,046	( <sup>6</sup> )	11,796	2271	
175,010	4,957	84	86	182	148	7,055	14,378	6,444	12,827	11,556	30,986	55,559	986	2273	
181,582	6,352	91	100	18	1	9,928	31,571	8,764	20,022	26,796	82,548	173,255	8,708	2274	
( <sup>6</sup> )	850	(NA)	(NA)	270	136	21,388	55,082	18,824	35,423	43,285	91,900	( <sup>6</sup> )	3,446	228	
70,605	558	94	97	136	74	13,034	36,433	11,495	21,322	28,554	61,474	131,123	2,211	2281	
13,559	(13)	76	97	48	25	4,427	9,317	3,927	7,217	7,487	13,798	26,135	721	2282	
22,470	(13)	83	74	40	15	2,438	5,387	2,057	4,156	4,113	8,610	18,250	151	2283	
10,114	(13)	(D)	(D)	46	22	1,489	3,945	1,345	2,728	3,131	8,018	23,823	363	2284	
( <sup>6</sup> )	17,296	(NA)	(NA)	773	343	59,965	152,746	52,734	108,652	118,864	296,146	( <sup>6</sup> )	17,162	229	
92,931	1,623	95	97	46	4	4,737	14,177	4,167	8,777	11,109	24,881	59,764	1,258	2291	
59,795	1,941	94	97	96	68	8,580	21,346	7,856	15,403	17,745	44,872	68,663	1,931	2292	
148,828	3,485	96	92	139	64	8,306	21,466	7,431	15,512	17,119	44,765	110,352	1,883	2293	
85,023	1,513	94	94	179	98	5,805	12,894	5,149	10,982	9,822	22,612	57,255	1,046	2294	
212,310	4,117	84	82	105	37	8,588	27,925	6,869	15,028	19,692	52,491	162,597	3,997	2295	
159,948	2,614	87	87	149	52	16,366	37,143	14,482	29,025	29,190	73,795	170,897	3,863	2298	
121,603	2,000	87	76	59	20	7,583	17,795	6,780	13,925	14,187	32,730	65,109	3,184	2299	
( <sup>6</sup> )	76,552	(NA)	(NA)	30,963	28,430	1,081,670	2,525,183	973,029	1,811,120	2,014,758	4,439,597	( <sup>6</sup> )	83,945	23	
( <sup>6</sup> )	3,561	92	97	1,970	1,655	151,116	406,304	136,862	267,334	339,418	676,947	( <sup>6</sup> )	10,961	231	
1,140,731	3,466	92	97	1,814	1,526	147,099	397,151	133,181	260,434	332,007	660,206	1,412,782	10,747	2311	
27,991	(13)	99	99	156	129	4,017	9,153	3,681	6,900	7,411	16,741	39,272	214	2312	
( <sup>6</sup> )	16,684	(NA)	(NA)	4,028	3,254	253,020	455,438	234,106	431,237	373,941	801,633	( <sup>6</sup> )	17,866	232	
893,980	6,370	94	87	1,064	681	94,182	163,751	88,052	163,002	137,487	292,426	438,563	7,786	2321	
74,324	1,168	95	21	100	54	7,269	11,330	6,929	12,326	9,847	20,348	29,405	396	2322	
100,036	(13)	97	91	413	374	10,744	25,367	9,246	16,942	18,485	50,708	62,980	495	2323	
58,287	263	96	82	313	361	5,541	12,379	5,063	9,897	10,455	20,685	16,850	256	2325	
9,669	28	97	99	70	58	1,111	3,002	943	1,790	2,100	5,620	6,709	70	2326	
397,685	2,776	86	70	976	962	47,279	91,400	44,006	81,297	75,620	159,439	185,819	3,401	2327	
38,300	(13)	77	67	85	16	12,061	16,609	11,169	20,429	13,858	33,212	62,166	633	2328	
792,886	5,473	82	76	1,007	748	74,833	131,600	68,698	125,554	106,089	219,195	334,435	4,829	2329	

## GENERAL SUMMARY

Table 2A.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS

(For explanation of column captions see Introduction.)

Code	Industry group and industry	1954									Value added by manu- facture, un- adjusted <sup>4</sup>
		Pri- mary prod- ucts spe- ciali- zation ratio <sup>1</sup>	Cover- age ratio <sup>2</sup>	Estab- lish- ments  (Number)	Pro- pri- tors and firm mem- bers  (Number)	All employees		Production workers			
						Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>3</sup>	Man-hours (1,000)	Wages (\$1,000)	
	Apparel and related products—Con.										
233	Women's and misses' outerwear.....	98	92	10,298	7,400	363,896	1,046,120	327,042	569,369	824,534	1,686,067
2331	Blouses.....	93	85	1,245	1,025	42,980	99,818	39,567	67,901	82,201	165,352
2333	Dresses, unit price.....	96	95	4,114	2,917	143,278	418,577	129,527	219,314	334,819	661,292
2334	Dresses, dozen price.....	94	96	892	640	54,507	127,276	49,442	90,092	100,137	205,070
2337	Women's suits, coats, and skirts.....	94	93	3,204	2,235	96,022	326,933	84,410	147,479	252,312	529,623
2338	Women's neckwear and scarfs.....	95	75	133	107	1,745	6,189	1,457	2,434	3,561	9,676
2339	Women's outerwear, n.e.c.....	82	44	710	476	25,361	67,324	22,637	42,147	51,503	115,046
234	Women's and children's undergarments.....	96	88	1,843	1,020	112,234	284,814	100,609	179,036	219,040	513,256
2341	Women's and children's underwear.....	95	85	1,352	836	73,427	176,305	66,885	118,702	140,063	298,385
2342	Corsets and allied garments.....	96	95	491	184	38,807	108,509	33,724	60,333	78,977	214,870
2351	Millinery.....	99	98	871	527	20,235	65,809	18,222	33,577	53,667	101,180
236	Children's outerwear.....	94	83	1,983	1,517	77,538	196,303	70,086	125,003	155,804	322,052
2361	Children's dresses.....	95	93	764	630	32,525	78,244	29,410	52,459	61,892	127,587
2363	Children's coats.....	91	81	407	315	14,399	44,980	12,849	22,692	35,598	72,601
2369	Children's outerwear, n.e.c.....	78	62	812	572	30,613	73,079	27,826	49,651	58,313	121,863
2371	Fur goods.....	99	100	1,972	1,669	9,983	42,833	7,994	13,935	33,915	74,735
238	Miscellaneous apparel.....	92	86	1,804	1,238	64,333	163,381	57,402	100,723	125,202	266,605
2381	Fabric dress gloves.....	94	72	110	74	4,537	10,374	4,127	7,131	8,266	17,271
2382	Fabric work gloves.....	95	93	130	51	10,084	19,335	3,484	16,536	16,631	29,561
2383	Suspenders and garters.....	78	60	47	34	934	2,435	806	1,400	1,768	4,134
2384	Robes and dressing gowns.....	93	84	328	274	10,957	27,039	10,043	16,891	21,093	44,027
2385	Waterproof outer garments.....	89	81	294	163	12,872	34,702	11,360	20,167	27,117	59,342
2386	Leather and sheep-lined clothing.....	85	80	153	91	5,361	15,730	4,660	8,106	11,862	24,248
2387	Belts.....	92	94	503	394	12,571	35,403	10,789	19,639	25,176	58,010
2388	Handkerchiefs.....	98	98	100	54	3,513	7,792	3,178	5,179	5,797	14,366
2389	Apparel, n.e.c.....	90	91	139	103	3,501	10,569	2,950	5,670	7,489	15,582
239	Fabricated textiles, n.e.c.....	94	77	7,274	6,312	134,560	381,319	116,371	215,490	278,889	626,928
2391	Curtains and draperies.....	94	89	716	620	13,988	36,899	12,350	22,976	27,304	61,392
2392	Housefurnishings, n.e.c.....	91	1059	1,213	926	36,188	97,105	31,948	59,271	71,686	173,910
2393	Textile bags.....	84	85	268	164	12,109	35,120	9,897	18,748	24,329	51,641
2394	Canvas products.....	89	86	1,119	1,004	13,540	40,180	10,724	20,498	25,917	61,442
2395	Tucking, pleating, and stitching.....	(10)	(10)	491	527	6,453	17,602	6,021	10,778	14,828	27,904
2396	Trimmings and art goods.....	97	83	836	618	17,754	55,623	15,045	28,105	40,558	87,687
2397	Schiffli-machine embroideries.....	98	99	601	695	5,715	19,739	5,061	9,969	14,772	34,396
2398	Embroideries, except Schiffli.....	98	96	926	919	10,803	26,880	10,041	16,409	22,178	41,280
2399	Fabricated textile products, n.e.c.....	87	77	1,104	839	18,006	52,167	15,280	28,733	37,314	87,272
24	Lumber and wood products.....	(NA)	(NA)	41,484	41,987	645,936	1,933,523	581,920	1,106,955	1,604,859	3,188,409
2411	Logging camps and contractors.....	98	89	12,865	13,946	75,510	210,625	68,171	115,575	182,295	389,928
242	Lumber and basic products.....	96	81	20,487	22,034	341,350	962,339	314,684	592,946	827,536	1,595,384
2421	Sawmills and planing mills.....	97	81	19,778	21,470	321,199	906,847	296,070	558,428	781,760	1,502,911
2422	Veneer mills.....	93	88	261	143	12,825	35,453	11,796	23,254	28,464	59,250
2423	Shingle mills.....	97	90	175	192	2,532	9,367	2,339	3,223	7,970	15,451
2424	Cooperage stock mills.....	96	93	205	178	3,368	6,521	3,188	5,575	5,793	10,843
2425	Excelsior mills.....	96	93	68	51	1,424	4,150	1,290	2,463	3,547	6,928
243	Millwork and related products.....	93	94	3,834	2,911	119,416	456,405	101,017	205,260	351,221	709,768
2431	Millwork plants.....	90	91	3,348	2,751	68,668	258,198	55,700	113,488	188,156	374,518
2432	Plywood plants.....	93	95	255	64	39,201	152,301	36,100	74,155	133,940	246,250
2433	Prefabricated wood products.....	99	95	231	96	11,547	45,905	9,216	17,615	29,125	88,999
244	Wooden containers.....	94	88	1,513	1,072	52,307	137,641	47,679	93,378	113,637	215,297
2441	Fruit and vegetable baskets.....	91	88	134	101	6,685	13,869	6,278	12,497	11,782	18,961
2442	Rattan and willow ware.....	91	93	75	89	1,293	3,307	1,159	2,228	2,731	5,329
2443	Cigar boxes.....	97	94	23	12	1,081	2,333	992	2,019	1,971	3,988
2444	Wooden boxes.....	93	85	1,101	807	39,522	105,781	35,871	70,136	86,643	165,361
2445	Cooperage.....	97	99	180	63	3,223	12,350	3,377	6,497	10,507	21,656
249	Miscellaneous wood products.....	93	92	2,785	2,024	57,351	166,512	50,368	99,794	130,169	278,031
2491	Wood preserving.....	97	99	288	100	12,073	36,162	10,409	20,671	28,020	69,257
2492	Lasts and related products.....	99	95	51	15	1,463	5,640	1,220	2,425	4,190	8,210
2493	Mirror and picture frames.....	89	93	343	268	5,214	17,351	4,420	8,845	12,520	27,601
2499	Wood products, n.e.c.....	91	87	2,103	1,641	38,600	107,357	34,318	67,852	85,438	172,961
25	Furniture and fixtures.....	(NA)	(NA)	10,273	7,323	340,694	1,197,376	286,649	571,294	892,891	1,966,410
251	Household furniture.....	96	95	6,470	4,450	243,932	818,893	208,262	413,823	618,344	1,320,743
2511	Wood house furniture not upholstered...	94	93	2,785	1,923	124,898	388,409	109,618	222,063	303,249	592,714
2512	Upholstered household furniture.....	94	85	1,780	1,165	56,022	193,596	48,119	93,276	146,990	313,034
2514	Metal household furniture.....	87	83	641	362	29,629	110,933	24,345	47,083	80,199	190,816
2515	Mattresses and bedsprings.....	77	91	1,195	948	32,096	121,516	25,122	49,325	84,588	216,362
2519	Household furniture, n.e.c.....	86	59	69	52	1,285	4,437	1,056	2,074	3,316	7,815

See footnotes at end of table.



## GENERAL SUMMARY

9

BY INDUSTRY GROUPS AND INDUSTRIES: 1954 AND 1947--Continued

For definitions of industries, see Appendix A--Industry Descriptions)

1954—Continued		1947													
Value of shipments	Capital expenditures, new <sup>5</sup>	Primary products specialization ratio <sup>1</sup>	Cover- age ratio <sup>2</sup>	Estab- lish- ments	Pro- pri- etors and firm mem- bers	All employees		Production workers			Value added by manufacture, unad- justed <sup>4</sup>	Value of shipments	Capital expendi- tures, new <sup>5</sup>	Code	
						Number <sup>3</sup>	Payroll	Number <sup>3</sup>	Man-hours	Wages					
(\$1,000)	(\$1,000)			(Number)	(Number)		(\$1,000)		(1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		
(6)	15,499	(NA)	(NA)	10,087	9,439	313,095	846,416	278,699	504,406	671,332	1,428,585	(6)	18,607	233	
375,262	2,445	93	88	1,362	1,404	32,883	67,667	30,066	54,065	54,332	123,928	276,575	2,150	2331	
1,455,080	5,069	95	97	4,205	3,803	133,779	372,080	118,678	212,301	295,768	612,240	1,359,030	5,156	2333	
435,216	2,366	89	96	917	753	48,590	90,221	43,808	81,896	68,503	152,222	348,785	4,820	2334	
1,261,320	3,621	95	93	2,971	2,893	82,650	282,804	72,858	131,160	228,185	477,223	1,092,579	5,005	2337	
26,297	(13)	96	96	166	181	2,754	6,963	2,181	4,589	3,829	16,850	51,061	88	2338	
252,074	1,905	70	33	466	405	12,439	26,681	11,108	20,395	20,715	46,122	97,203	1,388	2339	
(6)	8,432	(NA)	(NA)	2,053	1,531	94,615	196,157	84,234	155,671	145,368	385,296	(6)	10,434	234	
770,026	5,431	95	78	1,518	1,195	58,004	115,949	52,650	95,698	87,477	229,306	575,679	5,701	2341	
394,308	3,001	94	96	535	336	36,611	80,208	31,584	59,373	57,791	155,990	277,791	4,733	2342	
173,125	(13)	99	98	933	754	20,933	59,566	18,116	33,127	46,889	100,863	177,728	1,019	2351	
(6)	3,844	(NA)	(NA)	1,685	1,576	48,245	100,954	43,499	80,866	79,260	177,777	(6)	3,433	236	
291,499	1,451	93	91	665	624	22,456	43,346	20,374	38,663	33,953	76,291	174,827	1,382	2361	
172,110	574	91	87	473	455	11,008	22,524	9,834	17,761	19,411	50,841	114,199	863	2363	
278,248	1,818	(NA)	(NA)	547	497	14,781	35,084	13,291	24,442	25,896	50,645	111,509	1,188	2369	
227,525	417	100	100	2,229	2,623	16,190	68,571	13,745	24,521	57,636	122,821	357,013	559	2371	
(6)	4,091	89	47	1,728	1,443	57,793	120,609	51,468	95,503	92,392	217,248	(6)	4,241	238	
39,091	(13)	89	47	133	71	5,633	9,233	5,248	9,553	7,811	14,806	30,848	646	2381	
65,776	1,103	94	96	143	65	10,865	17,749	10,315	18,759	15,780	34,562	73,722	1,013	2382	
10,116	(13)	74	54	64	64	1,685	3,641	1,408	2,544	2,417	6,774	14,563	42	2383	
107,364	(13)	89	82	376	358	10,884	23,353	9,803	17,469	17,630	42,563	103,024	708	2384	
119,660	(3)	85	73	247	221	8,573	20,272	7,568	14,833	15,448	33,444	80,751	533	2385	
56,383	(13)	79	80	125	114	4,228	10,432	3,710	7,211	7,798	18,451	40,555	276	2386	
106,311	658	90	95	396	361	9,162	22,016	7,573	14,338	15,889	38,037	68,982	714	2387	
40,261	(13)	98	95	159	137	4,583	9,054	4,078	7,277	6,303	20,689	53,106	166	2388	
26,996	(13)	96	86	85	55	2,180	4,859	1,765	3,519	3,316	7,922	13,286	143	2389	
(6)	23,586	(NA)	(NA)	6,250	6,155	126,663	271,168	112,300	218,455	208,622	528,427	(6)	16,825	239	
172,668	1,208	97	90	397	286	7,982	17,081	6,928	13,354	11,702	34,909	109,640	748	2391	
503,203	4,363	93	1087	1,232	1,114	39,946	78,272	36,119	69,064	62,565	155,715	502,461	5,001	2392	
220,978	3,941	93	98	232	140	13,850	28,279	12,129	23,356	20,984	66,320	355,981	3,918	2393	
129,611	1,285	91	93	903	857	10,603	24,751	8,669	17,953	17,491	41,424	91,108	1,399	2394	
34,578	644	(10)	(10)	531	626	5,929	12,421	5,532	10,416	11,035	21,339	25,237	298	2395	
242,915	7,691	94	95	785	789	14,521	32,720	12,676	24,165	24,622	62,587	127,672	1,905	2396	
65,834	1,016	98	96	546	710	5,678	13,054	5,080	10,458	11,681	31,733	55,514	826	2397	
56,155	716	97	96	787	936	9,836	20,234	9,308	16,981	17,627	34,521	44,392	349	2398	
201,198	2,719	88	87	837	697	18,318	42,356	15,859	32,708	30,915	79,879	189,632	2,381	2399	
(6)	217,361	(NA)	(NA)	(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)	24	
733,417	48,632	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	2411	
(6)	120,128	(NA)	(NA)	19,695	24,021	409,808	803,116	391,543	807,839	734,138	1,571,978	(6)	115,930	242	
3,247,200	115,533	(NA)	(NA)	19,049	23,770	383,449	752,522	366,551	761,770	689,266	1,487,969	2,519,455	110,617	2421	
120,718	3,146	92	83	156	85	10,461	20,441	9,722	20,648	17,248	36,858	67,423	3,702	2422	
33,632	984	100	86	184	...	2,446	7,321	2,446	...	7,321	15,465	26,254	...	2423	
26,330	(13)	96	92	250	109	12,291	20,253	11,739	22,928	17,984	27,191	55,132	1,376	2424	
12,066	(13)	100	97	56	57	1,161	2,579	1,085	2,493	2,319	4,495	7,508	235	2425	
(6)	28,613	(NA)	(NA)	2,750	2,250	97,347	263,712	85,607	183,552	213,282	454,352	(6)	26,998	243	
873,007	13,737	90	92	2,381	2,043	59,783	162,050	51,901	109,998	128,695	266,452	546,182	13,499	2431	
515,023	11,193	93	96	163	71	27,489	73,783	25,325	56,456	64,203	149,205	272,059	10,057	2432	
224,368	3,684	93	96	206	136	10,075	27,879	8,381	17,098	20,384	38,695	103,311	3,442	2433	
(6)	8,124	(NA)	(NA)	1,516	1,147	69,104	139,553	64,727	136,963	121,257	233,453	(6)	11,596	244	
30,516	674	91	88	141	138	9,105	13,398	8,781	18,080	12,093	19,330	30,584	872	2441	
11,017	(13)	89	93	53	57	1,073	2,101	983	2,047	1,776	3,573	7,243	74	2442	
7,829	(13)	100	85	42	25	1,875	3,135	1,747	3,396	2,650	4,655	8,102	144	2443	
352,108	6,109	96	85	1,025	845	47,828	98,833	44,606	95,983	85,757	174,545	365,290	8,738	2444	
60,350	973	96	97	255	82	9,223	22,086	8,610	17,457	18,981	31,350	106,379	1,768	2445	
(6)	11,663	(NA)	(NA)	2,351	1,854	65,540	145,576	59,535	126,748	122,375	260,619	(6)	17,050	249	
190,503	4,700	(D)	(D)	242	54	16,247	37,142	14,772	31,706	32,020	92,041	(NA)	6,243	2491	
11,953	(13)	(D)	(D)	50	13	1,959	5,348	1,699	3,417	4,159	8,937	13,129	253	2492	
47,622	(13)	89	92	246	208	3,811	10,255	3,293	6,675	7,742	15,506	25,555	296	2493	
329,758	6,605	87	94	1,813	1,579	43,523	92,831	39,771	84,950	78,454	144,135	277,075	10,258	2499	
(6)	61,945	(NA)	(NA)	7,551	6,112	316,273	806,948	277,909	583,572	641,673	1,346,277	(6)	77,441	25	
(6)	40,284	(NA)	(NA)	4,879	3,774	228,429	558,058	203,570	426,613	450,182	932,405	(6)	56,900	251	
1,113,264	17,161	94	94	2,248	1,692	132,050	304,614	120,062	256,896	253,156	489,145	898,674	32,257	2511	
632,813	6,934	92	83	1,391	1,086	44,755	114,861	39,786	80,656	92,908	192,430	381,053	9,833	2512	
402,575	8,720	83	73	312	178	19,651	52,463	16,819	34,381	40,240	97,087	194,851	7,194	2514	
464,516	5,306	76	93	878	780	30,320	82,063	25,444	51,620	60,802	146,005	331,004	7,434	2515	
15,576	2,161	83	71	50	38	1,653	4,057	1,459	3,060	3,076	7,738	14,030	182	2519	

## GENERAL SUMMARY

Table 2A.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS

(For explanation of column captions see Introduction.)

Code	Industry group and industry	1954									Value added by manu- facture, unadjusted <sup>4</sup>
		Pri- mary prod- ucts spe- ciali- zation ratio <sup>1</sup>	Cover- age ratio <sup>2</sup>	Estab- lish- ments  (Number)	Pro- pri- etors and firm mem- bers  (Number)	All employees		Production workers			
						Number <sup>3</sup>	Payroll  (\$1,000)	Number <sup>3</sup>	Man-hours  (1,000)	Wages  (\$1,000)	
252	Furniture and fixtures—Continued	84	87	241	113	21,652	84,826	18,170	36,447	66,140	154,566
2521	Office furniture.....	86	86	112	60	5,509	18,788	4,773	9,681	14,605	28,757
2522	Wood office furniture.....	84	87	129	53	16,143	66,038	13,397	26,765	51,535	125,808
253	Metal office furniture.....	84	81	394	216	19,570	75,730	15,791	32,955	54,758	125,674
2531	Public and professional furniture.....	83	86	292	174	14,044	52,638	11,556	24,120	38,905	87,446
2532	Public-building furniture.....	81	68	102	42	5,526	23,092	4,234	8,834	15,853	38,228
2541	Professional furniture.....	88	87	1,626	1,191	33,137	142,515	26,584	53,101	102,071	230,712
256	Partitions and fixtures.....	86	84	1,327	1,172	18,189	59,722	14,328	27,999	40,090	109,931
2561	Screens, shades, and blinds.....	73	64	215	172	4,405	16,887	3,632	7,240	11,376	32,630
2562	Window and door screens.....	85	78	196	152	4,368	15,580	3,404	6,746	10,648	29,604
2563	Window shades.....	85	93	916	848	9,416	27,254	7,290	14,012	18,065	47,696
259	Venetian blinds.....	75	74	215	181	4,211	15,687	3,512	6,968	11,485	24,782
2591	Furniture and fixtures, n.e.c.....	72	78	163	145	3,401	12,718	2,809	5,594	9,245	18,790
2599	Restaurant furniture.....	83	61	52	36	810	2,969	703	1,373	2,240	5,992
26	Furniture and fixtures, n.e.c.....	(NA)	(NA)	5,004	1,360	530,210	2,217,420	435,727	919,940	1,656,720	4,580,944
261	Pulp, paper and products.....	99	100	932	11	216,255	974,866	183,039	401,498	777,832	2,289,349
2611	Pulp, paper and board.....	99	100	252	3	57,672	256,622	48,896	105,252	207,188	704,274
2612	Pulp mills.....	99	100	589	7	142,191	648,972	119,859	265,871	513,108	1,429,659
2613	Paper and paperboard mills.....	98	97	91	1	16,391	69,271	14,284	30,374	57,536	155,415
2641	Building paper and board mills.....	85	86	277	84	27,697	123,991	20,017	42,091	80,101	282,067
2651	Paper coating and glazing.....	96	92	196	37	15,902	63,044	13,019	26,517	43,516	101,430
2661	Envelopes.....	91	88	381	110	33,326	121,116	27,773	56,227	89,530	211,688
267	Paper bags.....	96	98	1,888	622	145,053	570,643	118,223	242,171	406,137	969,675
2671	Paperboard containers.....	96	98	1,704	559	132,964	525,685	107,762	221,054	371,275	895,298
2674	Paperboard boxes.....	97	87	184	63	12,088	44,958	10,460	21,117	34,861	74,377
269	Fiber cans, tubes, drums, etc.....	91	89	1,330	496	91,974	363,760	73,654	151,434	259,602	726,732
2691	Pulp, paper and board products, n.e.c.....	88	82	352	196	12,260	47,940	9,933	19,677	34,633	97,964
2693	Die-cut paper and board.....	99	98	76	17	3,636	14,330	2,926	6,038	10,325	19,005
2694	Wallpaper.....	100	93	29	10	2,882	11,630	2,401	5,018	9,111	25,439
2699	Pulp goods, pressed and molded.....	90	89	873	273	73,195	289,859	58,393	120,699	205,532	584,323
27	Paper and board products, n.e.c.....	(NA)	(NA)	32,531	24,329	804,386	3,625,133	499,666	961,465	2,115,344	6,264,558
2711	Printing and publishing.....	95	100	8,646	6,962	281,799	1,262,793	148,941	281,198	667,058	2,144,223
2721	Newspapers.....	95	97	2,045	773	62,428	312,695	16,348	29,614	68,218	795,543
273	Periodicals.....	89	80	1,412	758	57,400	245,196	27,893	55,025	107,607	539,395
2731	Books.....	91	90	814	330	34,704	144,757	8,802	17,098	29,250	394,702
2732	Books: publishing and printing.....	76	55	598	428	22,695	100,439	19,090	37,927	78,356	144,692
2741	Book printing.....	85	82	946	504	18,378	73,174	5,271	9,570	24,090	149,310
2751	Miscellaneous publishing.....	85	86	12,073	10,106	200,233	888,659	157,567	305,988	650,828	1,357,820
2761	Commercial printing.....	82	79	2,924	2,035	77,717	376,571	60,178	117,968	261,249	578,883
2771	Lithographing.....	93	89	294	172	21,347	70,434	15,297	28,624	41,960	131,343
278	Greeting cards.....	89	85	1,419	1,117	37,305	130,670	31,646	61,124	98,243	199,271
2781	Bookbinding and related industries.....	91	86	730	603	17,178	58,966	15,453	29,368	48,450	84,741
2782	Bookbinding.....	76	66	334	255	8,624	29,831	6,952	13,425	20,760	47,910
2783	Blankbooks and paper ruling.....	74	82	154	92	8,199	30,948	6,329	12,659	20,788	49,651
2789	Loose-leaf binders and devices.....	84	83	201	167	3,303	10,925	2,910	5,671	8,244	16,968
279	Miscellaneous bookbinding work.....	96	91	2,772	1,902	47,777	264,937	36,522	72,350	196,087	368,766
2791	Printing trade services.....	94	87	1,081	870	14,550	74,558	11,744	23,082	57,492	106,909
2792	Typesetting.....	93	79	567	438	7,510	29,412	6,080	11,963	21,739	43,385
2793	Engraving and plate printing.....	95	93	891	525	17,711	112,575	12,778	25,575	82,634	148,876
2794	Photoengraving.....	89	89	233	69	8,005	48,391	5,917	11,728	34,220	69,594
2794	Electrotyping and stereotyping.....	(NA)	(NA)	11,075	3,523	739,389	3,407,199	501,272	1,016,053	2,005,627	9,443,629
28	Chemicals and allied products.....	89	83	518	91	121,252	593,576	77,544	158,415	346,270	1,386,544
281	Inorganic chemicals.....	78	66	47	...	3,805	16,730	2,927	5,922	12,119	66,175
2811	Sulfuric acid.....	76	84	29	...	20,440	96,047	15,198	31,393	67,890	251,033
2812	Alkalies and chlorine.....	87	78	442	91	97,006	480,798	59,418	121,099	266,260	1,069,335
2819	Inorganic chemicals, n.e.c.....										

See footnotes at end of table.



## GENERAL SUMMARY

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BY INDUSTRY GROUPS AND INDUSTRIES: 1954 AND 1947—Continued

For definitions of industries, see Appendix A—Industry Descriptions)

1954—Continued		1947												Code
Value of shipments	Capital expenditures, new <sup>5</sup>	Primary products specialization ratio <sup>1</sup>	Coverage ratio <sup>2</sup>	Establishments	Proprietors and firm members	All employees		Production workers			Value added by manufacture, unadjusted <sup>4</sup>	Value of shipments	Capital expenditures, new <sup>5</sup>	
						Number <sup>3</sup>	Payroll	Number <sup>3</sup>	Man-hours	Wages				
(\$1,000)	(\$1,000)			(Number)	(Number)		(\$1,000)		(1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	
( <sup>6</sup> )	5,350	(NA)	(NA)	216	109	20,747	58,222	17,527	36,410	45,888	104,548	173,165	5,739	252
52,712	615	92	80	114	70	6,458	16,805	5,759	12,583	13,782	25,863	47,483	1,544	2521
202,932	4,734	89	92	102	39	14,289	41,417	11,768	23,827	32,106	78,685	125,682	4,195	2522
( <sup>6</sup> )	4,732	(NA)	(NA)	182	95	15,410	44,127	12,729	27,174	32,509	70,288	( <sup>6</sup> )	2,443	253
159,545	3,781	68	80	120	65	10,213	28,629	8,542	18,034	21,562	44,614	75,992	1,379	2531
65,401	951	62	67	62	30	5,197	15,498	4,187	9,140	10,947	25,674	41,757	1,064	2532
346,974	7,031	88	89	1,135	954	27,816	89,115	23,888	51,175	70,180	137,814	245,864	5,493	2541
( <sup>6</sup> )	3,853	(NA)	(NA)	937	1,004	19,652	45,850	16,530	34,320	33,600	81,872	( <sup>6</sup> )	6,149	256
70,877	1,156	65	61	164	232	4,206	10,892	3,619	7,720	7,962	19,166	39,424	2,261	2561
64,110	805	73	79	126	79	5,748	14,609	4,635	9,409	10,203	25,609	56,903	2,116	2562
114,152	1,892	96	92	647	693	9,698	20,349	8,276	17,191	15,435	37,097	83,660	1,772	2563
( <sup>6</sup> )	694	(NA)	(NA)	202	176	4,219	11,576	3,665	7,880	9,314	19,350	( <sup>6</sup> )	807	259
36,751	559	87	69	172	151	3,361	9,149	2,871	6,188	7,261	15,182	26,192	653	2591
11,075	(13)	91	56	30	25	858	2,427	794	1,692	2,053	4,168	6,417	154	2599
( <sup>6</sup> )	532,723	(NA)	(NA)	4,100	1,289	454,075	1,294,535	391,715	857,344	1,018,339	2,913,197	( <sup>6</sup> )	406,779	26
( <sup>6</sup> )	370,539	99	100	890	27	197,893	607,586	173,880	396,974	508,180	1,462,813	( <sup>6</sup> )	290,526	261
1,577,291	148,475	99	100	226	7	50,290	148,125	45,412	99,894	127,452	415,938	939,604	85,507	2611
3,792,810	213,050	100	100	664	20	147,603	459,461	128,468	297,080	380,728	1,046,875	2,804,463	205,019	2612
305,302	9,013													
622,192	15,240	87	92	181	28	22,269	70,661	17,733	38,967	50,047	165,580	401,371	10,072	2641
195,341	6,942	92	95	164	43	13,797	39,191	11,543	24,898	27,656	68,253	128,346	5,338	2651
623,068	18,901	96	86	192	65	22,230	53,774	19,527	41,350	42,265	119,074	319,928	9,189	2661
( <sup>6</sup> )	63,899	97	98	1,649	705	118,982	315,838	102,730	216,028	235,766	669,287	( <sup>6</sup> )	52,014	267
2,179,580	60,490	97	98	1,520	647	109,745	292,865	94,596	199,527	217,079	632,933	1,474,743	47,274	2671
146,797	3,408	97	93	129	58	9,237	22,973	8,134	16,501	18,687	36,354	73,812	4,740	2674
( <sup>6</sup> )	57,201	(NA)	(NA)	1,024	421	78,904	207,485	66,302	139,127	154,425	428,190	( <sup>6</sup> )	39,640	269
206,652	6,424	(NA)	(NA)	208	109	9,281	25,478	7,739	16,161	18,864	50,224	97,655	2,052	2691
39,668	526	98	100	58	4	5,462	16,287	4,771	10,696	12,222	32,732	58,895	5,994	2693
42,293	3,215	95	86	19	10	1,748	4,910	1,482	3,224	3,870	9,672	16,191	1,046	2694
1,427,622	47,034	86	86	739	298	62,413	160,810	52,310	109,046	119,469	335,562	786,917	30,548	2699
( <sup>6</sup> )	236,897	(NA)	(NA)	28,978	22,685	715,120	2,276,262	437,880	888,254	1,317,573	4,248,773	( <sup>6</sup> )	226,368	27
3,091,027	75,536	94	100	8,340	7,069	234,375	743,854	118,116	229,669	372,752	1,405,709	1,917,302	81,583	2711
1,440,961	14,542	94	98	2,166	727	68,957	235,706	19,472	42,064	64,453	638,384	1,059,368	34,308	2721
( <sup>6</sup> )	14,801	(NA)	(NA)	805	273	51,964	146,013	18,338	37,731	52,400	325,907	( <sup>6</sup> )	11,578	273
665,232	7,558	92	93	648	219	39,942	104,278	8,092	16,740	20,142	262,903	463,851	7,310	2731
221,328	7,243	77	44	157	54	12,022	41,735	10,246	20,991	32,258	63,004	92,303	4,268	2735
231,242	3,270	93	78	611	332	12,036	35,200	3,430	6,735	8,475	72,151	103,343	1,262	2741
2,202,074	65,822	86	86	11,920	10,459	191,719	594,125	154,520	320,011	449,830	970,291	1,513,136	60,677	2751
962,552	34,854	77	77	1,415	901	52,408	192,657	41,367	85,212	127,151	314,132	488,569	17,387	2761
208,905	8,809	92	87	162	88	18,053	43,898	12,650	24,582	23,900	81,051	123,856	2,512	2771
( <sup>6</sup> )	7,458	(NA)	(NA)	1,342	1,190	42,561	107,466	36,437	73,120	84,632	177,144	( <sup>6</sup> )	7,485	278
111,970	3,666	84	87	686	628	22,227	57,541	20,037	40,241	48,857	90,259	115,963	3,549	2781
79,185	1,802	85	66	305	278	8,768	21,028	7,039	13,892	14,654	36,622	60,324	2,145	2782
78,670	1,285	75	83	131	86	8,133	20,946	6,445	13,024	14,914	36,797	58,001	1,168	2783
22,370	703	87	79	220	198	3,433	7,951	2,916	5,963	6,207	13,466	17,185	623	2789
( <sup>6</sup> )	11,802	(NA)	(NA)	2,217	1,646	43,047	177,343	33,550	69,130	153,980	264,004	( <sup>6</sup> )	9,576	279
121,390	4,267	94	87	794	694	11,475	44,906	9,301	19,515	35,409	66,842	75,703	1,982	2791
60,084	1,702	92	80	416	346	7,688	20,998	6,463	13,196	16,959	33,094	45,311	544	2792
173,040	3,986	96	95	770	540	16,711	80,003	12,234	24,942	57,962	116,131	133,540	4,640	2793
85,894	1,845	92	87	237	66	7,173	31,436	5,552	11,477	23,650	47,937	58,984	2,410	2794
( <sup>6</sup> )	926,613	(NA)	(NA)	10,019	4,034	626,418	1,898,472	464,144	974,684	1,236,012	5,317,001	( <sup>6</sup> )	804,958	28
( <sup>6</sup> )	219,273	(NA)	(NA)	408	105	62,448	194,784	48,270	100,035	141,012	425,184	( <sup>6</sup> )	115,954	281
139,270	10,803	(10)	(10)	43	...	3,110	9,208	2,549	5,333	7,253	31,097	60,568	6,559	2811
399,908	34,728	81	85	32	2	19,853	63,822	15,017	31,815	45,494	113,868	208,560	56,404	2812
1,859,372	173,741	(10)	(10)	333	103	39,485	121,754	30,704	62,887	88,265	280,219	562,458	52,991	2819

Table 2A.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS

(For explanation of column captions see Introduction.)

Code	Industry group and industry	Primary products specialization ratio <sup>1</sup>	Coverage ratio <sup>2</sup>	Establishments (Number)	Proprietors and firm members (Number)	All employees		Production workers			Value added by manufacture, unadjusted <sup>4</sup>
						Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>3</sup>	Man-hours (1,000)	Wages (\$1,000)	
Chemicals and allied products—Con.											
282	Organic chemicals <sup>15</sup> .....	91	90	772	36	245,465	1,193,196	176,220	351,388	769,231	3,214,454
2821	Cyclic (coal tar) crudes.....	82	72	41	...	1,925	8,246	1,488	2,829	5,620	22,179
2822	Intermediates and organic colors.....	64	66	339	1	32,748	165,511	22,297	44,142	99,416	362,305
2823	Plastics materials.....	90	75	10	17	41,145	201,487	28,388	57,441	122,188	583,224
2824	Synthetic rubber.....	98	90	1	...	8,531	44,502	6,178	12,217	30,214	152,906
2825	Synthetic fiber.....	96	90	4	...	61,105	261,753	45,894	89,959	174,376	717,226
2826	Explosives <sup>15</sup> .....	98	90	4	5	32,478	146,843	25,544	51,696	109,986	205,442
2829	Organic chemicals, n.e.c.....	77	80	275	32	67,531	364,852	46,428	93,101	227,428	1,171,165
Drugs and medicines.....											
283	Drugs and medicines.....	94	4	1,371	424	92,062	426,430	57,927	117,075	216,003	1,336,562
2831	Biological products.....	86	90	93	32	3,965	15,789	2,864	5,722	9,333	36,680
2833	Medicinal chemicals (inc. botanicals).....	89	59	115	24	11,541	56,872	7,743	16,229	33,345	138,877
2834	Pharmaceutical preparations.....	91	94	1,163	368	76,555	353,769	47,320	95,123	173,324	1,161,004
Soap and related products.....											
284	Soap and related products.....	80	64	1,543	717	46,221	219,412	27,571	51,973	107,627	827,668
2841	Soap and glycerin.....	84	1074	289	114	25,839	127,817	15,668	29,259	68,303	510,756
2842	Cleaning and polishing preparations.....	90	1045	1,151	581	18,026	78,550	10,551	20,206	34,593	288,590
2843	Sulfonated oils and assistants.....	74	78	103	22	2,355	13,044	1,352	2,507	4,729	28,322
Paints and allied products.....											
285	Paints and allied products.....	95	95	1,671	542	69,973	324,005	43,673	87,408	167,344	849,895
2851	Paints and varnishes.....	95	97	1,469	486	56,580	263,887	33,865	67,660	127,640	642,656
2852	Inorganic color pigments.....	88	88	104	19	12,182	54,755	9,042	18,220	37,193	196,901
2853	Whiting and fillers.....	89	47	98	37	1,210	5,363	764	1,528	2,510	10,337
Gum and wood chemicals.....											
286	Gum and wood chemicals.....	76	98	117	54	7,245	26,680	6,052	12,764	19,872	62,053
2861	Hardwood distillation.....	91	100	34	21	1,627	5,222	1,384	2,896	4,114	7,419
2862	Softwood distillation.....	68	98	27	16	4,431	17,662	3,698	7,886	13,260	47,374
2863	Gum naval stores.....	88	95	26	12	516	1,289	423	927	902	2,473
2864	Tanning and dyeing materials.....	83	92	30	5	670	2,507	545	1,054	1,594	4,785
Fertilizers.....											
287	Fertilizers.....	96	97	840	204	31,769	111,528	24,595	53,102	76,914	252,422
2871	Fertilizers.....	96	1060	260	32	19,728	73,048	15,728	34,527	53,431	171,297
2872	Fertilizers, mixing only.....	95	1044	580	172	12,040	38,480	8,866	18,575	23,483	81,125
Vegetable and animal oils.....											
288	Vegetable and animal oils.....	91	88	1,013	402	39,964	152,708	31,003	71,890	105,291	385,475
2881	Cottonseed oil mills.....	96	93	286	27	13,665	43,103	11,082	27,080	29,831	101,164
2882	Linseed oil mills.....	94	90	12	...	1,263	5,625	1,026	2,479	4,860	16,679
2883	Soybean oil mills.....	88	96	88	1	6,922	29,453	5,447	11,624	20,679	106,938
2884	Vegetable oil mills, n.e.c.....	58	80	51	16	2,460	9,198	1,893	4,041	6,337	21,240
2885	Grease and tallow.....	88	55	500	339	11,466	46,633	8,480	19,567	31,291	95,451
2886	Fatty acids.....	68	73	15	2	1,891	10,263	1,185	2,712	6,009	21,922
2889	Animal oils, n.e.c.....	89	66	61	17	2,294	8,430	1,889	4,384	6,282	22,079
Chemical products, n.e.c.....											
289	Chemical products, n.e.c.....	90	79	3,230	1,033	85,436	359,661	56,684	112,035	197,071	1,128,552
2891	Printing ink.....	90	95	271	69	7,609	35,713	5,268	10,699	20,746	87,289
2892	Essential oils.....	83	67	37	12	547	2,846	330	636	1,215	5,484
2893	Toilet preparations.....	91	1077	710	262	24,809	94,726	16,185	31,051	47,728	419,666
2894	Glue and gelatin.....	87	67	230	64	6,753	29,192	4,814	9,425	17,683	64,771
2895	Carbon black.....	100	98	47	...	3,410	16,466	2,801	6,112	13,029	62,424
2896	Compressed and liquefied gases.....	99	84	428	26	10,363	44,092	6,315	13,143	25,288	111,254
2897	Insecticides and fungicides.....	84	82	265	73	6,510	25,218	4,276	8,224	13,211	62,099
2898	Salt.....	96	97	38	12	4,017	16,379	3,346	7,299	12,694	48,936
2899	Chemical products, n.e.c.....	81	70	1,204	515	21,415	95,026	13,346	25,443	45,473	266,627
Petroleum and coal products.....											
29	Petroleum and coal products.....	(NA)	(NA)	1,381	292	215,843	1,101,814	163,811	322,947	778,408	2,582,613
2911	Petroleum refining.....	99	98	409	81	153,072	816,120	113,829	223,116	570,791	1,901,333
293	Coke and byproducts.....	100	100	119	11	32,504	148,579	27,967	53,636	119,165	373,874
2931	Beehive coke ovens.....	100	101	40	11	594	1,652	548	581	1,471	2,494
2932	Byproducts coke ovens.....	100	1009	79	...	31,909	146,927	27,419	53,054	117,693	371,380
Paving and roofing materials.....											
295	Paving and roofing materials.....	93	95	523	105	20,097	88,146	15,768	33,638	63,372	199,584
2951	Paving mixtures and blocks.....	97	94	326	62	4,367	20,092	3,260	6,688	12,508	50,260
2952	Roofing felts and coatings.....	91	94	197	43	15,730	68,054	12,507	26,950	50,863	149,323
Petroleum and coal products, n.e.c.....											
299	Petroleum and coal products, n.e.c.....	89	22	330	95	10,169	48,967	6,246	12,556	25,079	107,818
2992	Lubricants, n.e.c.....	87	1018	283	88	8,159	40,062	4,702	9,414	18,912	85,063
2999	Petroleum and coal products, n.e.c.....	94	89	47	7	2,009	8,905	1,544	3,141	6,167	22,754
Rubber products.....											
30	Rubber products.....	(NA)	(NA)	1,406	523	246,526	1,059,337	196,238	377,414	775,499	1,903,702
3011	Tires and inner tubes.....	88	99	49	4	92,748	441,607	73,976	137,981	334,104	844,545
3021	Rubber footwear.....	84	85	22	1	18,322	64,022	15,773	30,317	51,296	107,027
3031	Reclaimed rubber.....	87	74	20	3	2,953	12,697	2,460	4,602	9,671	22,042
3099	Rubber industries, n.e.c.....	88	78	1,315	515	132,503	541,011	104,028	204,513	380,427	930,086

See footnotes at end of table.



## GENERAL SUMMARY

13

BY INDUSTRY GROUPS AND INDUSTRIES: 1954 AND 1947—Continued

For definitions of industries, see Appendix A—Industry Descriptions)

1954—Continued		1947													
Value of shipments	Capital expenditures, new <sup>5</sup>	Primary products specialization ratio <sup>1</sup>	Coverage ratio <sup>2</sup>	Establishments	Proprietors and firm members	All employees		Production workers			Value added by manufacture, unadjusted <sup>4</sup>	Value of shipments	Capital expenditures, new <sup>5</sup>	Code	
						Number <sup>3</sup>	Payroll	Number <sup>3</sup>	Man-hours	Wages					
(\$1,000)	(\$1,000)			(Number)	(Number)		(\$1,000)		(1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		
( <sup>6</sup> )	430,665	(NA)	(NA)	563	52	203,914	648,046	157,842	322,687	458,422	1,536,066	( <sup>6</sup> )	397,168	282	
77,154	2,199	85	78	46	1	1,972	5,490	1,633	3,727	4,527	17,071	60,639	1,981	2821	
715,602	72,067	( <sup>10</sup> )	( <sup>10</sup> )	93	...	33,603	115,076	25,539	52,000	80,473	259,771	478,552	...	2822	
1,231,448	108,058	92	1077	123	6	28,627	91,397	21,810	46,250	63,295	197,558	478,331	58,386	2823	
361,093	13,760	96	89	20	...	7,663	25,774	5,721	11,262	18,381	97,356	235,200	4,121	2824	
1,240,942	62,751	97	98	38	5	69,683	199,910	57,857	116,820	150,380	433,285	705,271	67,953	2825	
389,638	17,279	87	99	76	3	10,426	32,313	8,932	18,121	26,051	74,706	136,356	6,050	2826	
2,198,687	154,550	( <sup>10</sup> )	( <sup>10</sup> )	167	37	51,940	178,086	36,350	74,507	115,315	456,319	973,044	258,677	2829	
( <sup>6</sup> )	55,761	(NA)	(NA)	1,354	543	81,497	236,191	54,447	110,124	132,765	747,311	( <sup>6</sup> )	74,955	283	
60,973	2,510	87	57	84	55	2,987	8,474	2,189	4,524	4,994	19,161	37,737	1,360	2831	
252,478	12,948	73	74	107	31	13,097	42,220	9,920	21,074	29,277	119,525	218,156	14,190	2833	
1,643,140	40,303	91	98	1,163	457	65,413	185,497	42,338	84,526	98,494	608,625	941,290	59,405	2834	
( <sup>6</sup> )	27,648	(NA)	(NA)	1,391	774	44,864	149,497	29,654	62,408	61,852	606,801	( <sup>6</sup> )	35,125	284	
959,679	13,358	81	91	247	106	27,008	93,187	19,304	41,058	57,391	449,792	1,084,032	24,080	2841	
560,059	12,711	70	1052	1,038	631	15,387	48,324	9,093	18,624	20,983	136,602	264,610	9,655	2842	
62,977	1,578	77	76	106	37	1,969	7,986	1,257	2,726	3,478	20,407	52,075	1,390	2843	
( <sup>6</sup> )	30,092	(NA)	(NA)	1,457	550	68,933	228,559	46,598	99,226	127,508	583,557	( <sup>6</sup> )	53,524	285	
1,494,399	21,268	94	96	1,291	495	53,412	180,952	34,693	73,599	94,155	469,584	1,248,841	33,884	2851	
371,395	8,358	88	84	95	19	14,266	43,466	11,086	23,845	31,303	104,978	287,046	19,329	2852	
24,203	( <sup>13</sup> )	81	53	71	36	1,255	4,141	819	1,782	2,050	8,995	18,791	311	2853	
( <sup>6</sup> )	7,742	(NA)	(NA)	117	66	8,447	20,472	7,370	15,404	16,308	62,796	( <sup>6</sup> )	3,700	286	
16,006	( <sup>13</sup> )	94	96	28	13	1,879	4,157	1,624	3,412	3,328	7,528	13,803	608	2861	
88,650	6,662	83	99	31	24	4,567	11,798	4,065	8,417	9,640	46,026	72,921	2,488	2862	
24,840	( <sup>13</sup> )	98	99	31	25	638	1,385	512	1,185	947	2,634	38,508	336	2863	
13,818	( <sup>13</sup> )	88	78	27	4	1,363	3,132	1,169	2,390	2,393	6,608	17,775	268	2865	
( <sup>6</sup> )	46,587	98	95	705	216	31,972	71,700	26,610	57,043	52,842	186,926	( <sup>6</sup> )	17,133	287	
533,448	33,762	92	60	187	13	20,357	47,928	17,359	37,802	37,235	126,919	312,229	10,823	2871	
329,328	12,825	98	1047	518	203	11,615	23,772	9,251	19,241	15,607	60,007	193,318	6,310	2872	
( <sup>6</sup> )	41,442	(NA)	(NA)	1,192	625	43,323	116,926	35,788	85,385	85,751	482,002	( <sup>6</sup> )	51,816	288	
546,430	11,680	90	90	315	47	14,398	31,419	12,136	30,996	22,560	104,603	518,091	9,804	2881	
139,619	1,311	77	87	17	...	1,577	4,536	1,349	2,838	3,628	42,243	192,173	5,086	2882	
826,362	8,479	96	80	123	34	6,460	18,773	5,076	11,459	13,489	105,291	585,709	15,887	2883	
165,982	2,470	80	89	84	16	5,036	13,356	4,292	10,182	9,873	77,509	334,231	5,252	2884	
222,516	8,138	90	1052	554	477	12,364	38,588	9,967	23,351	28,419	118,356	303,291	12,611	2886	
55,991	4,819	86	76	16	3	1,335	4,433	1,037	2,239	3,055	17,151	68,094	1,427	2887	
65,374	4,544	94	( <sup>10</sup> )	73	48	2,153	5,821	1,931	4,320	4,727	16,849	42,940	1,749	2889	
( <sup>6</sup> )	67,398	(NA)	(NA)	2,832	1,103	81,020	232,297	57,565	122,372	139,552	686,358	( <sup>6</sup> )	55,583	289	
180,638	6,336	92	98	239	57	6,021	20,496	4,154	9,005	11,890	51,949	115,708	2,973	2891	
20,832	( <sup>13</sup> )	71	92	42	16	1,151	3,787	896	1,761	2,510	14,477	35,739	593	2892	
628,651	7,537	84	1072	719	330	27,247	69,398	19,047	38,297	38,978	232,118	381,371	9,192	2893	
139,352	2,945	82	76	174	19	7,936	25,453	5,362	9,487	16,502	66,290	145,157	3,249	2894	
101,616	10,597	100	97	59	...	3,184	10,017	2,834	6,073	8,456	44,962	73,592	7,023	2895	
167,674	19,840	100	84	371	17	8,983	25,241	6,139	13,247	16,996	66,833	93,489	9,709	2896	
174,613	2,988	87	68	165	54	4,060	11,524	2,789	5,761	6,448	25,018	67,010	3,438	2897	
71,933	4,328	100	98	38	5	4,809	12,762	4,056	8,592	9,826	25,197	46,056	4,181	2898	
531,213	12,586	75	64	1,025	605	17,629	53,619	11,688	30,149	27,946	159,514	318,063	15,225	2899	
( <sup>6</sup> )	753,184	(NA)	(NA)	1,411	398	207,618	725,983	165,405	354,089	543,362	1,990,944	( <sup>6</sup> )	399,754	29	
11,757,218	656,033	99	97	437	103	145,806	535,781	113,847	237,506	396,236	1,494,474	6,623,708	316,370	2911	
( <sup>6</sup> )	79,301	100	100	149	62	32,819	101,014	29,232	69,633	85,610	243,013	( <sup>6</sup> )	64,263	293	
9,042	( <sup>13</sup> )	100	109	78	62	3,100	10,251	2,935	5,971	9,597	21,661	70,237	3,376	2931	
1,241,327	79,277	100	1092	71	....	29,719	90,763	26,297	63,662	76,013	221,352	854,025	63,887	2932	
( <sup>6</sup> )	13,155	(NA)	(NA)	438	111	19,291	58,117	15,803	35,490	44,053	155,814	( <sup>6</sup> )	15,134	295	
126,561	5,367	99	98	264	75	2,785	8,565	2,042	4,581	5,618	23,249	50,977	2,924	2951	
400,826	7,787	95	95	174	36	16,506	49,552	13,761	30,909	38,435	132,565	338,219	12,210	2952	
( <sup>6</sup> )	4,694	(NA)	(NA)	387	122	9,702	31,071	6,523	11,460	17,463	97,643	( <sup>6</sup> )	3,987	299	
224,216	4,314	89	1019	275	67	8,002	26,263	5,070	8,455	13,421	80,289	199,357	3,168	2992	
58,486	( <sup>13</sup> )	100	100	112	55	1,697	4,808	1,453	3,005	4,042	17,354	47,491	819	2999	
( <sup>6</sup> )	128,431	(NA)	(NA)	872	366	258,237	781,378	213,823	423,667	613,189	1,299,491	( <sup>6</sup> )	109,783	30	
1,841,732	67,430	90	95	57	19	115,657	390,841	93,916	185,392	311,276	650,165	1,547,040	54,883	3011	
166,367	4,217	80	99	26	1	28,125	72,666	23,952	48,954	58,462	121,040	198,691	4,982	3021	
38,996	2,834	95	44	15	14	2,070	6,849	1,855	4,015	5,826	9,604	17,263	2,864	3031	
1,677,072	53,949	85	81	774	332	112,385	311,022	94,100	185,306	237,625	518,682	945,257	47,054	3099	

## GENERAL SUMMARY

Table 2A.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS

(For explanation of column captions see Introduction.)

Code	Industry group and industry	1954									
		Primary products specialization ratio <sup>1</sup>	Coverage ratio <sup>2</sup>	Establishments (Number)	Proprietors and firm members (Number)	All employees		Production workers			Value added by manufacture, unadjusted <sup>4</sup> (\$1,000)
						Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>3</sup>	Man-hours (1,000)	Wages (\$1,000)	
31	Leather and leather products.....	(NA)	(NA)	4,845	2,565	356,578	1,027,314	321,161	586,857	833,694	1,637,417
3111	Leather tanning and finishing.....	98	100	579	208	43,468	168,139	38,662	75,689	137,487	264,264
3121	Industrial leather belting.....	97	92	136	57	4,576	18,569	3,342	6,513	11,484	34,911
3131	Footwear cut stock.....	97	96	563	271	20,059	57,113	17,641	32,533	44,231	87,185
314	Footwear (except rubber).....	100	100	1,369	363	230,255	619,332	209,568	373,455	513,053	985,754
3141	Footwear, except rubber.....	99	99	1,196	291	219,375	589,267	199,907	356,681	490,142	940,704
3142	House slippers.....	89	87	173	72	10,879	30,065	9,661	16,773	22,911	45,050
315	Leather gloves.....	88	90	239	185	6,917	15,573	6,182	10,433	12,345	23,185
3151	Leather dress gloves.....	86	91	143	107	4,438	9,739	3,969	6,518	7,642	13,559
3152	Leather work gloves.....	82	81	96	78	2,479	5,834	2,212	3,915	4,702	9,626
3161	Luggage.....	94	97	497	362	15,856	51,679	13,960	27,417	39,753	89,385
317	Purses and small leather goods.....	96	96	973	710	29,544	80,434	26,693	50,978	62,947	125,517
3171	Handbags and purses.....	97	98	714	490	22,881	61,405	20,911	39,942	49,620	92,968
3172	Small leather goods.....	91	87	259	220	6,663	19,029	5,782	11,035	13,326	32,549
319	Miscellaneous leather goods.....	92	85	489	409	5,900	16,472	5,109	9,835	12,392	27,211
3192	Saddlery, harness, and whips.....	88	87	106	99	1,289	3,533	1,113	2,168	2,690	5,116
3199	Leather goods, n.e.c.....	91	82	383	310	4,611	12,938	3,996	7,667	9,702	22,095
32	Stone, clay, and glass products.....	(NA)	(NA)	11,162	7,843	491,814	1,938,085	412,031	827,012	1,496,029	3,821,659
3211	Flat glass.....	<sup>10</sup> 90	(D)	32	...	24,559	132,509	21,389	44,344	114,966	252,313
322	Pressed and blown glassware.....	99	99	372	172	91,334	354,568	79,082	154,346	287,883	674,382
3221	Glass containers.....	98	99	85	1	49,410	195,944	44,076	87,672	166,107	377,161
3229	Pressed and blown glass, n.e.c.....	98	96	287	171	41,924	158,623	35,006	66,673	121,776	297,221
3231	Products of purchased glass.....	97	75	859	580	21,614	87,529	18,203	36,377	68,285	192,644
3241	Cement, hydraulic.....	99	100	162	...	39,769	167,659	34,036	70,839	134,777	528,920
325	Structural clay products.....	97	99	1,053	375	72,814	267,165	63,565	129,764	213,839	425,356
3251	Brick and hollow tile.....	96	98	610	201	32,426	114,740	28,751	61,048	93,114	183,312
3253	Floor and wall tile.....	91	99	49	16	11,265	43,488	9,627	19,706	33,718	70,606
3254	Sewer pipe.....	88	92	66	2	9,637	35,446	8,686	17,171	29,615	55,293
3255	Clay refractories.....	92	95	177	27	14,463	55,604	12,204	22,783	43,006	88,753
3259	Structural clay products, n.e.c.....	89	72	151	129	5,022	17,887	4,296	9,054	14,385	27,391
326	Pottery and related products.....	98	95	867	713	50,934	173,562	44,762	82,229	139,277	260,062
3261	Vitreous plumbing fixtures.....	99	99	37	3	9,200	40,541	7,785	15,676	32,987	76,740
3262	Vitreous-china food utensils.....	95	96	34	11	8,704	28,161	7,693	14,061	22,622	36,184
3263	Earthenware food utensils.....	98	92	47	15	13,335	38,742	12,333	19,467	32,468	49,751
3264	Porcelain electrical supplies.....	94	87	45	9	9,550	37,679	7,990	15,847	28,629	54,675
3265	China decorating for the trade.....	100	100	50	48	497	1,304	437	864	1,033	2,148
3269	Pottery products, n.e.c.....	95	90	654	627	9,647	27,134	8,521	16,313	21,536	40,562
327	Concrete and plaster products.....	96	98	5,410	4,615	89,610	340,287	70,328	149,022	241,437	705,513
3271	Concrete products.....	99	99	5,090	4,503	60,410	216,954	46,659	96,707	146,075	396,344
3272	Gypsum products.....	95	98	90	25	10,966	48,639	9,278	21,927	39,715	161,898
3274	Lime.....	84	97	145	71	7,989	30,645	6,835	14,456	24,454	57,383
3275	Mineral wool.....	95	93	85	16	10,244	44,049	7,555	15,931	31,191	89,887
3281	Cut-stone and stone products.....	93	99	977	741	21,576	78,240	18,410	36,721	60,650	119,765
329	Nonmetallic mineral products, n.e.c.....	94	89	1,430	647	79,598	336,563	62,253	123,367	234,912	662,699
3291	Abrasive products.....	94	87	312	120	22,345	101,218	15,756	30,417	62,040	191,850
3292	Asbestos products.....	87	93	110	13	21,977	92,413	17,760	35,985	70,319	179,864
3293	Gaskets and asbestos insulations.....	86	70	237	99	12,807	55,115	10,128	20,340	37,241	84,485
3295	Minerals: ground or treated.....	98	87	353	106	7,699	32,404	6,401	13,784	24,312	89,725
3297	Nonclay refractories.....	96	90	77	7	8,559	34,260	7,150	12,890	26,124	78,071
3298	Statuary and art goods.....	89	99	220	258	1,726	5,315	1,450	2,822	3,932	8,332
3299	Nonmetallic mineral products, n.e.c.....	84	94	121	44	4,483	15,835	3,605	7,126	10,943	30,340
33	Primary metal industries.....	(NA)	(NA)	5,838	2,402	1,117,059	5,097,466	938,511	1,812,027	3,985,548	9,372,910
331	Blast furnaces and steel mills.....	96	92	320	1	530,051	2,469,967	449,800	843,684	1,969,629	4,755,233
3312	Steel works and rolling mills.....	<sup>10</sup> 94	<sup>10</sup> 85	289	...	518,690	2,418,635	440,966	826,070	1,932,734	4,640,515
3313	Electrometallurgical products.....	<sup>10</sup> 92	95	31	1	11,361	51,332	8,834	17,614	36,895	114,718
332	Iron and steel foundries.....	94	90	1,734	646	212,365	895,728	184,149	354,224	716,414	1,339,270
3321	Gray-iron foundries.....	94	87	1,414	610	133,914	557,535	118,288	230,234	459,049	846,271
3322	Malleable-iron foundries.....	86	89	81	1	23,378	96,888	20,205	38,306	78,004	135,175
3323	Steel foundries.....	88	87	239	35	55,073	241,305	45,655	85,684	179,361	357,824

See footnotes at end of table.



## GENERAL SUMMARY

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BY INDUSTRY GROUPS AND INDUSTRIES: 1954 AND 1947—Continued

For definitions of industries, see Appendix A—Industry Descriptions)

1954—Continued				1947											Code
Value of shipments	Capital expenditures, new <sup>5</sup>	Primary products specialization ratio <sup>1</sup>	Coverage ratio <sup>2</sup>	Establishments	Proprietors and firm members	All employees		Production workers			Value added by manufacture, unadjusted <sup>4</sup>	Value of shipments	Capital expenditures, new <sup>5</sup>		
						Number <sup>3</sup>	Payroll	Number <sup>3</sup>	Man-hours	Wages					
														(\$1,000)	
(6)	28,053	(NA)	(NA)	5,308	3,496	383,264	873,746	348,615	677,001	725,308	1,533,028	(6)	31,301	31	
706,174	7,123	100	100	561	230	53,261	156,632	48,686	101,101	130,700	403,831	1,070,267	10,565	311	
62,165	1,955	91	98	183	97	5,032	13,441	4,015	8,285	9,667	28,375	57,403	1,320	3121	
246,373	3,063	99	97	606	417	22,077	47,793	19,706	38,145	38,468	87,301	294,309	1,921	3131	
(6)	12,084	(NA)	(NA)	1,500	466	240,315	516,879	220,654	419,652	438,894	785,543	(6)	13,344	314	
1,790,717	11,420	99	100	1,292	349	230,882	496,990	212,213	403,731	423,181	751,528	1,726,609	12,587	3141	
90,466	(NA)	93	83	208	117	9,433	19,889	8,441	15,921	15,713	34,015	67,388	757	3142	
(6)	122	91	91	341	363	11,577	20,798	10,491	18,222	17,091	32,088	(6)	528	315	
28,430	(13)	94	95	250	288	8,857	15,641	8,047	13,486	12,958	23,678	46,829	302	3151	
17,771	(13)	82	82	91	75	2,720	5,157	2,444	4,736	4,133	8,410	16,609	226	3152	
168,902	1,868	94	97	591	562	16,002	41,055	13,852	27,684	30,981	67,662	132,868	1,842	3161	
(6)	1,495	97	95	982	842	25,984	57,266	23,310	48,009	44,298	96,532	(6)	1,113	317	
188,782	972	99	97	736	601	20,378	45,664	18,468	38,876	36,168	77,042	163,306	799	3171	
57,256	522	90	90	246	241	5,606	11,602	4,842	9,133	8,130	19,490	37,649	314	3172	
(6)	340	(NA)	(NA)	544	519	9,016	19,882	7,901	15,903	15,209	31,696	(6)	668	319	
10,842	(13)	86	92	140	111	2,861	6,294	2,501	5,117	5,021	9,437	20,459	194	3192	
39,970	(13)	90	80	404	408	6,155	13,588	5,400	10,786	10,188	22,259	40,935	474	3199	
(6)	300,647	(NA)	(NA)	11,643	10,323	461,037	1,206,903	404,930	838,320	991,966	2,298,521	(6)	285,066	32	
370,503	30,964	99	75	32	...	25,268	77,940	22,563	43,619	67,861	158,746	223,715	11,618	3211	
(6)	37,417	(NA)	(NA)	213	62	89,302	230,287	79,417	162,779	193,954	421,518	(6)	49,096	322	
635,121	26,542	(D)	(D)	87	8	47,132	126,503	41,943	87,530	107,101	252,069	422,614	32,775	3221	
411,322	10,875	96	91	126	54	42,170	103,784	37,474	75,249	86,853	169,449	234,795	16,321	3229	
372,383	5,590	97	85	1,048	840	23,920	61,508	20,748	41,584	48,449	129,857	214,873	6,398	3231	
811,125	73,015	100	100	155	1	35,662	98,626	30,639	66,341	79,861	247,936	408,928	42,488	3241	
(6)	31,561	(NA)	(NA)	1,109	514	69,258	169,153	62,676	131,210	144,019	280,320	(6)	27,632	325	
250,411	16,233	95	97	674	328	29,617	69,399	27,002	58,367	59,876	110,867	144,497	13,266	3251	
97,334	4,579	97	95	37	18	6,828	16,335	6,250	13,088	13,774	31,238	40,966	2,277	3253	
73,930	3,118	83	92	69	6	9,105	22,421	8,310	17,013	19,552	38,362	47,854	4,183	3254	
136,369	5,702	93	94	168	19	17,963	47,048	15,937	31,810	38,663	75,982	109,260	5,875	3255	
36,400	1,928	83	70	161	143	5,745	13,950	5,177	10,932	12,154	23,871	28,814	2,031	3259	
(6)	10,634	(NA)	(NA)	742	654	58,006	146,962	53,376	107,064	126,677	224,792	(6)	15,940	326	
116,267	1,061	98	99	33	4	7,831	24,615	6,996	14,591	21,187	45,677	68,093	2,850	3261	
44,478	1,333	97	97	27	14	11,100	26,849	10,326	20,228	23,330	35,228	43,196	2,692	3262	
66,421	528	92	97	76	53	16,747	42,091	15,742	29,733	37,175	54,837	72,054	4,784	3263	
77,896	5,357	89	93	50	12	11,547	30,463	10,447	21,553	25,454	52,832	71,484	2,904	3264	
3,779	(13)	100	98	65	52	1,048	2,471	875	1,811	1,679	5,143	8,377	82	3265	
55,333	2,321	95	83	491	519	9,733	20,473	8,990	19,148	17,652	31,075	39,927	2,628	3269	
(6)	61,680	(NA)	(NA)	6,494	7,001	70,176	169,559	61,572	134,302	140,032	346,761	(6)	84,014	327	
736,273	40,548	99	99	6,158	6,899	46,821	106,484	41,537	89,031	88,471	202,789	329,734	35,692	3271	
282,177	10,227	97	98	73	7	7,472	21,384	6,543	15,552	17,911	67,879	127,543	24,386	3272	
109,226	4,835	93	97	172	59	7,009	18,767	6,129	14,200	15,516	39,253	72,842	10,745	3274	
156,907	6,068	(D)	(D)	91	36	8,874	22,924	7,363	15,519	18,134	36,840	73,131	13,191	3275	
181,784	4,296	100	98	640	581	9,880	25,922	8,312	17,257	20,605	45,940	67,253	2,274	3281	
(6)	45,488	(NA)	(NA)	1,210	670	79,565	226,946	65,627	134,164	170,508	442,651	(6)	45,606	329	
332,512	9,857	94	86	254	127	21,042	67,114	16,068	31,683	45,674	127,954	225,399	11,820	3291	
346,206	14,935	87	90	112	24	21,595	60,529	18,255	37,731	47,761	113,305	206,167	12,960	3292	
153,402	4,954	83	75	193	73	13,178	36,667	10,923	22,182	27,476	66,568	120,093	3,966	3293	
149,357	10,226	94	88	217	46	8,873	24,126	7,417	16,880	18,356	55,556	90,199	8,780	3295	
131,097	3,739	94	91	63	4	10,273	27,783	8,951	17,626	22,963	58,022	90,337	5,772	3297	
11,774	(13)	91	97	272	359	2,025	4,268	1,829	3,640	3,334	7,391	9,998	138	3298	
55,314	1,574	86	76	99	37	2,579	6,459	2,184	4,422	4,744	13,855	25,942	2,170	3299	
(6)	831,095	(NA)	(NA)	5,364	2,893	1,158,158	3,601,791	1,012,008	2,053,663	2,982,736	5,733,028	(6)	592,177	33	
(6)	523,543	(NA)	(NA)	318	4	545,724	1,732,428	478,652	953,778	1,454,160	2,657,075	(6)	368,365	331	
(6)	501,230	(10)	(10)	299	4	536,096	1,703,143	470,477	937,100	1,430,711	2,601,582	(6)	363,070	3312	
271,767	22,313	1088	95	19	...	9,628	29,285	8,175	16,678	23,449	55,493	150,904	5,295	3313	
(6)	76,332	(NA)	(NA)	1,936	939	266,010	789,717	238,261	490,942	669,502	1,117,403	(6)	75,745	332	
1,418,947	49,939	92	87	1,655	904	173,813	512,245	157,395	328,537	441,716	732,807	1,173,039	54,097	3321	
212,354	9,966	88	91	78	1	29,862	90,811	26,659	54,650	76,750	121,661	184,400	8,184	3322	
534,718	16,426	89	83	203	34	62,335	186,661	54,207	107,755	151,036	262,935	403,175	13,464	3323	

Table 2A.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS

(For explanation of column captions see Introduction.)

Code	Industry group and industry	1954									Value added by manu- facture, unadjusted <sup>4</sup>
		Pri- mary prod- ucts 'spe- ciali- zation ratio <sup>1</sup>	Cover- age ratio <sup>2</sup>	Estab- lish- ments  (Number)	Pro- pri- etors and firm mem- bers  (Number)	All employees		Production workers			
						Number <sup>3</sup>	Payroll  (\$1,000)	Number <sup>3</sup>	Man-hours  (1,000)	Wages  (\$1,000)	
Primary metal industries—Continued											
333	Primary nonferrous metals.....	91	94	104	12	54,497	244,634	44,884	90,386	191,756	614,159
3331	Primary copper.....	(10)	(10)	27	...	13,818	59,783	11,705	23,596	48,442	156,981
3332	Primary lead.....	(10)	(10)	13	...	4,063	17,393	3,312	6,659	13,142	30,772
3333	Primary zinc.....	87	91	21	...	10,470	44,042	8,638	16,546	34,104	87,501
3334	Primary aluminum.....	100	99	16	...	20,626	96,813	16,982	35,335	77,174	264,201
3339	Primary nonferrous metals, n.e.c.....	89	50	27	12	5,519	26,601	4,246	8,249	18,892	74,703
3341	Secondary nonferrous metals.....	93	64	360	147	15,775	71,707	12,204	25,121	46,711	142,329
335	Nonferrous rolling and drawing.....	96	91	281	36	89,090	410,320	71,527	144,596	305,336	860,228
3351	Copper rolling and drawing.....	95	90	89	7	41,906	195,225	34,072	68,017	147,874	420,604
3352	Aluminum rolling and drawing.....	92	93	94	17	36,803	164,938	29,795	60,652	125,617	339,717
3359	Nonferrous rolling and drawing, n.e.c....	94	84	98	12	10,381	50,157	7,660	15,926	31,844	99,907
3361	Nonferrous foundries.....	90	92	1,920	1,225	73,487	327,906	61,573	124,041	251,374	476,969
339	Primary metal industries, n.e.c.....	94	35	1,119	335	141,790	677,201	114,370	229,972	504,324	1,184,721
3391	Iron and steel forgings.....	88	73	259	78	39,771	201,938	33,012	65,120	155,311	304,258
3392	Wire drawing.....	95	1039	198	31	54,873	250,558	43,246	87,182	182,385	465,654
3393	Welded and heavy-riveted pipe.....	91	1030	88	14	22,085	108,374	18,388	37,473	83,472	204,325
3399	Primary metal industries, n.e.c.....	92	1020	574	212	25,060	116,330	19,723	40,195	83,154	210,482
34	Fabricated metal products.....	(NA)	(NA)	22,516	13,908	1,019,406	4,397,337	821,172	1,652,366	3,174,186	7,596,275
3411	Tin cans and other tinware.....	98	99	227	37	55,234	245,134	48,008	97,574	202,112	482,297
342	Cutlery, hand tools, and hardware.....	87	90	1,930	1,019	143,676	599,952	117,796	235,874	444,178	1,044,425
3421	Cutlery.....	88	96	182	91	15,102	56,062	12,362	24,578	39,609	122,357
3422	Edge tools.....	83	76	247	149	7,108	29,174	5,917	11,614	21,428	48,027
3423	Hand tools, n.e.c.....	86	83	503	267	23,385	93,426	18,814	36,655	66,701	162,051
3424	Files.....	98	93	30	14	2,904	11,538	2,667	4,784	10,141	19,163
3425	Hand-saws and saw blades.....	71	90	99	45	6,879	29,287	5,327	10,320	19,927	53,246
3429	Hardware, n.e.c.....	86	90	869	453	88,296	380,464	72,708	147,920	286,371	639,578
343	Heating and plumbing equipment.....	85	86	1,220	444	105,888	451,342	82,806	162,498	316,577	828,467
3431	Plumbing fixtures and fittings.....	87	89	321	141	30,612	132,070	25,675	50,706	102,346	240,944
3439	Heating and cooking apparatus, n.e.c....	84	85	899	303	75,276	319,272	57,131	111,792	214,231	587,523
344	Structural metal products.....	92	91	7,421	4,671	284,121	1,280,903	216,909	440,025	873,919	2,203,635
3441	Structural and ornamental products.....	89	88	2,917	1,943	116,274	527,386	88,065	179,901	352,662	909,782
3442	Metal doors, sash, and trim.....	87	89	1,106	491	43,284	184,174	33,028	66,490	125,317	334,956
3443	Boiler shop products.....	82	81	977	472	74,373	342,069	57,217	115,994	239,967	578,568
3444	Sheet-metal work.....	81	80	2,421	1,765	50,190	227,272	38,597	77,639	155,971	380,327
346	Metal stamping and coating.....	85	(NA)	5,553	3,760	183,844	777,393	154,010	309,364	579,935	1,245,074
3461	Vitreous-enameled products.....	72	65	51	11	7,272	25,366	6,040	11,089	19,270	36,618
3463	Metal stampings.....	82	83	2,269	1,144	128,200	569,467	106,298	214,598	421,482	923,939
3465	Enameling and lacquering.....	(10)	(10)	380	269	5,503	19,134	4,735	9,074	14,426	29,992
3466	Galvanizing.....	(10)	(10)	133	79	3,178	12,561	2,685	5,604	9,232	19,945
3467	Engraving on metal.....	(10)	(10)	269	231	3,624	13,930	3,030	6,119	10,081	20,508
3468	Plating and polishing.....	(10)	(10)	2,451	2,026	36,066	136,933	31,221	62,878	105,443	214,070
3471	Lighting fixtures.....	90	91	1,228	719	45,078	181,951	36,361	73,660	128,759	323,711
348	Fabricated wire products.....	89	1057	1,352	816	62,630	254,324	52,391	104,105	189,385	430,815
3481	Nails and spikes.....	89	1019	77	18	2,701	10,420	2,324	4,776	7,550	18,447
3489	Wirework, n.e.c.....	89	1063	1,275	798	59,929	243,904	50,067	99,329	181,835	412,368
349	Metal products, n.e.c.....	91	81	3,585	2,442	138,930	606,334	112,888	229,264	439,318	1,037,849
3491	Metal barrels, drums, and pails.....	82	86	93	12	10,585	48,501	8,687	17,924	37,058	85,865
3492	Safes and vaults.....	87	97	26	16	3,442	15,030	2,581	5,050	10,341	28,974
3493	Steel springs.....	84	74	101	58	7,078	33,304	5,650	11,429	24,510	50,152
3494	Bolts, nuts, washers, and rivets.....	91	89	457	184	53,729	246,235	42,309	86,427	173,019	411,662
3495	Screw machine products.....	93	82	1,795	1,421	35,009	151,444	29,694	61,030	112,641	246,886
3496	Collapsible tubes.....	93	100	21	7	4,302	14,934	3,856	7,643	11,783	22,239
3497	Metal foil.....	92	80	66	23	6,713	28,693	5,550	11,529	21,981	62,604
3499	Fabricated metal products, n.e.c.....	85	53	1,026	721	18,069	68,191	14,556	28,228	47,982	129,464
35	Machinery except electrical.....	(NA)	(NA)	25,601	16,558	1,541,675	7,190,563	1,171,323	2,369,610	4,979,972	12,338,923
351	Engines and turbines.....	88	84	141	29	81,955	399,986	60,656	121,960	278,347	690,131
3511	Steam engines and turbines.....	88	87	22	1	30,178	158,861	21,382	44,821	109,650	295,367
3519	Internal combustion engines.....	87	83	119	28	51,777	241,125	39,273	77,139	168,696	394,763
352	Tractors and farm machinery.....	87	92	1,360	846	139,118	602,151	105,514	205,067	423,692	1,050,370
3521	Tractors.....	85	93	154	63	64,742	287,118	49,543	95,261	205,993	516,484
3522	Farm machinery (except tractors).....	89	90	1,206	783	74,376	315,033	55,971	109,806	217,698	533,886
353	Construction and mining machinery.....	87	85	971	375	109,385	509,501	79,706	160,371	327,957	901,408
3531	Construction and mining machinery.....	86	81	626	220	75,698	347,698	55,563	110,794	225,637	582,670
3532	Oilfield machinery and tools.....	89	93	345	155	33,687	161,802	24,143	49,577	102,320	318,737

See footnotes at end of table.



## GENERAL SUMMARY

17

BY INDUSTRY GROUPS AND INDUSTRIES: 1954 AND 1947—Continued

For definitions of industries, see Appendix A—Industry Descriptions)

1954—Continued		1947												Code
Value of shipments	Capital expenditures, new <sup>5</sup>	Primary products specialization ratio <sup>1</sup>	Coverage ratio <sup>2</sup>	Establishments	Proprietors and firm members	All employees		Production workers			Value added by manufacture, unadjusted <sup>4</sup>	Value of shipments	Capital expenditures, new <sup>5</sup>	
						Number <sup>3</sup>	Payroll	Number <sup>3</sup>	Man-hours	Wages				
(\$1,000)	(\$1,000)			(Number)	(Number)		(\$1,000)		(1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)
( <sup>6</sup> )	58,107	(NA)	(NA)	89	4	43,117	127,705	37,635	80,994	107,776	284,695	( <sup>6</sup> )	17,306	333
( <sup>6</sup> )	4,234	( <sup>10</sup> )	( <sup>10</sup> )	27	...	14,629	44,790	13,065	29,751	38,967	93,196	( <sup>6</sup> )	4,176	3331
( <sup>6</sup> )	1,404	( <sup>10</sup> )	( <sup>10</sup> )	16	...	4,663	14,082	4,022	8,879	11,610	35,902	( <sup>6</sup> )	2,649	3332
230,515	5,276	(NA)	100	20	...	12,424	35,476	11,088	22,232	30,475	77,068	190,996	6,739	3333
604,076	26,073	(NA)	100	11	...	8,919	26,398	7,336	16,014	20,930	65,262	161,010	2,791	3334
233,648	21,119	(NA)	100	15	4	2,482	6,959	2,124	4,118	5,794	13,267	24,253	951	3339
724,643	9,553	(NA)	(NA)	321	158	18,089	55,897	14,511	31,023	38,561	119,153	721,956	7,225	3341
( <sup>6</sup> )	63,188	(NA)	(NA)	162	11	88,824	264,117	74,796	151,518	209,657	503,363	( <sup>6</sup> )	33,828	335
1,320,608	30,540	(NA)	92	79	5	53,891	166,148	45,946	93,741	134,019	302,687	1,064,033	21,617	3351
874,408	21,402	(NA)	96	29	2	27,365	73,665	22,786	45,334	57,544	150,697	404,766	9,897	3352
300,715	11,246	(NA)	94	54	4	7,568	24,304	6,064	12,443	18,094	49,979	192,715	2,314	3359
873,790	24,779	93	92	1,725	1,431	66,798	203,314	58,609	119,141	166,697	300,628	573,190	19,017	3361
( <sup>6</sup> )	75,590	(NA)	(NA)	813	346	129,596	428,613	109,544	226,267	336,383	750,711	( <sup>6</sup> )	70,691	339
595,434	15,862	95	77	250	92	36,724	128,198	32,384	66,469	105,776	197,111	370,097	9,230	3391
1,266,436	35,729	96	1037	134	32	55,026	175,514	45,565	94,772	136,597	314,602	912,891	43,893	3392
525,788	9,134	92	1026	52	10	15,711	52,651	13,517	26,906	41,225	100,356	244,214	5,760	3393
538,576	14,864	94	1026	377	212	22,135	72,250	18,078	38,120	52,785	138,642	339,663	11,808	3399
( <sup>6</sup> )	432,491	(NA)	(NA)	16,777	12,348	973,174	2,833,684	823,012	1,694,666	2,189,032	4,920,304	( <sup>6</sup> )	304,822	34
1,366,766	50,093	97	99	215	24	46,760	126,941	40,779	84,715	105,394	231,503	678,924	20,183	3411
( <sup>6</sup> )	60,796	(NA)	(NA)	1,866	1,245	154,507	433,483	131,992	273,008	340,049	729,209	( <sup>6</sup> )	39,288	342
169,750	2,393	93	94	195	125	20,248	54,142	17,579	37,219	42,530	104,833	142,571	5,774	3421
69,721	1,611	81	76	237	166	8,540	23,725	7,428	15,173	18,843	39,177	60,425	2,567	3422
256,991	7,047	81	85	578	410	35,359	102,245	29,910	62,554	78,448	172,564	269,415	8,653	3423
27,314	725	94	93	37	19	4,446	11,213	4,084	7,882	9,714	19,149	24,493	1,113	3424
83,682	1,582	78	87	89	43	8,441	25,600	7,380	15,543	20,872	42,975	70,430	4,033	3425
1,111,529	47,436	89	91	730	482	77,473	216,558	65,611	134,637	169,642	350,511	586,010	17,148	3429
( <sup>6</sup> )	35,949	(NA)	(NA)	1,277	569	151,565	441,192	127,325	261,035	340,863	792,756	( <sup>6</sup> )	57,824	343
443,260	12,286	90	92	279	146	34,748	98,316	30,698	62,414	81,849	159,081	298,545	9,839	3431
1,146,608	23,663	86	86	998	423	116,817	342,876	96,627	198,621	259,014	633,675	1,241,573	47,985	3439
( <sup>6</sup> )	102,197	(NA)	(NA)	4,547	3,304	213,020	657,799	171,968	359,354	483,258	1,141,417	( <sup>6</sup> )	63,583	344
1,809,971	37,768	86	88	1,665	1,170	79,077	246,766	63,786	134,889	178,470	435,952	855,101	21,850	3441
638,501	22,097	84	87	364	193	23,336	72,176	19,100	40,347	53,630	129,366	232,768	6,668	3442
1,133,670	23,561	80	80	812	523	68,232	207,118	54,185	111,259	151,698	351,139	686,687	21,908	3443
738,481	18,770	83	82	1,706	1,418	42,375	131,739	34,897	72,859	99,460	224,960	420,525	13,157	3444
( <sup>6</sup> )	55,562	(NA)	(NA)	4,440	3,859	184,020	524,760	160,893	325,955	417,664	866,562	( <sup>6</sup> )	56,286	346
65,523	1,222	75	67	47	7	11,560	26,165	10,487	19,946	21,237	42,338	68,796	2,977	3461
1,727,544	38,068	86	81	1,985	1,332	133,401	392,474	115,238	234,088	307,904	648,891	1,177,396	44,846	3463
45,090	1,371	( <sup>10</sup> )	( <sup>10</sup> )	261	248	4,025	10,188	3,653	7,395	8,653	16,638	23,868	965	3465
31,681	1,193	( <sup>10</sup> )	( <sup>10</sup> )	123	98	2,916	8,231	2,581	5,405	6,203	14,356	26,065	681	3466
27,365	845	( <sup>10</sup> )	( <sup>10</sup> )	220	231	3,492	10,199	2,983	6,244	8,279	16,449	20,876	680	3467
304,352	12,862	( <sup>10</sup> )	( <sup>10</sup> )	1,804	1,943	28,626	77,503	25,951	52,877	65,388	127,890	180,676	6,137	3468
641,569	14,217	90	89	1,202	802	46,891	131,279	39,393	79,598	96,291	239,191	465,422	9,797	3471
( <sup>6</sup> )	18,112	(NA)	(NA)	978	689	60,344	170,631	52,271	106,380	135,622	281,499	( <sup>6</sup> )	16,426	348
33,778	610	82	1018	67	27	3,371	8,872	2,900	5,890	6,886	14,533	26,576	886	3481
744,766	17,502	91	1060	911	662	56,973	161,759	49,371	100,490	128,736	266,966	465,973	15,540	3489
( <sup>6</sup> )	95,561	(NA)	(NA)	2,252	1,856	116,067	347,599	98,391	204,621	269,891	638,167	( <sup>6</sup> )	41,435	349
217,239	5,860	83	83	71	7	10,927	31,368	9,341	18,483	24,955	64,186	173,272	3,607	3491
40,029	714	98	98	26	16	3,754	10,117	3,004	6,035	7,437	19,434	29,216	580	3492
115,692	36,127	89	68	81	23	7,760	24,938	6,747	14,135	20,233	45,876	92,646	2,285	3493
699,523	26,090	92	86	364	199	49,235	151,514	40,908	85,895	115,790	285,451	463,752	18,263	3494
401,449	11,886	94	86	1,209	1,242	28,623	87,292	24,859	52,461	69,235	144,791	222,015	10,800	3495
36,893	1,369	91	100	19	4	3,866	9,415	3,475	6,886	7,205	16,942	26,997	1,477	3496
180,737	5,423	97	76	44	29	4,269	11,765	3,680	7,438	9,277	21,520	54,748	2,395	3497
237,815	8,088	90	60	438	336	7,633	21,190	6,377	13,288	15,759	39,067	73,205	2,028	3499
( <sup>6</sup> )	713,808	(NA)	(NA)	17,910	13,159	1,552,135	4,830,125	1,248,921	2,591,220	3,610,392	7,833,970	( <sup>6</sup> )	517,589	35
( <sup>6</sup> )	40,052	(NA)	(NA)	149	31	87,688	280,424	67,127	134,502	202,483	384,995	( <sup>6</sup> )	36,580	351
450,041	18,411	82	81	18	2	22,173	73,550	15,736	32,039	50,633	83,557	135,439	12,879	3511
891,027	21,640	81	78	131	29	65,515	206,874	51,391	102,463	151,850	301,438	619,998	23,701	3519
( <sup>6</sup> )	76,176	(NA)	(NA)	1,102	774	171,461	494,724	139,650	284,547	381,653	753,913	( <sup>6</sup> )	106,078	352
1,177,974	51,528	83	95	94	44	77,317	227,767	62,926	125,699	177,966	332,062	890,841	64,017	3521
1,095,685	24,648	89	92	1,008	730	94,144	266,957	76,724	158,848	203,687	421,851	889,037	42,061	3522
( <sup>6</sup> )	43,481	(NA)	(NA)	747	324	113,871	355,367	88,905	188,357	255,047	641,397	( <sup>6</sup> )	33,474	353
1,132,333	25,292	85	82	517	206	84,694	263,835	66,196	140,847	189,964	470,132	926,712	22,179	3531
513,383	18,188	88	91	230	118	29,177	91,532	22,709	47,510	65,083	171,265	288,853	11,295	3532

## GENERAL SUMMARY

Table 2A.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS

(For explanation of column captions see Introduction.)

Code	Industry group and industry	1954									
		Primary products specialization ratio <sup>1</sup>	Coverage ratio <sup>2</sup>	Establishments (Number)	Pro-prietors and firm mem-bers (Number)	All employees		Production workers			Value added by manu-facture, unadjusted <sup>4</sup>
						Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>3</sup>	Man-hours (1,000)	Payroll (\$1,000)	
	Machinery, except electrical—Con.										
354	Metalworking machinery.....	92	87	6,539	4,757	262,724	1,396,917	206,327	442,373	1,018,262	2,350,111
3541	Machine tools.....	84	93	639	347	80,959	432,290	62,106	133,247	302,682	788,219
3542	Metalworking machinery.....	85	85	501	197	59,468	293,799	44,277	92,342	202,459	513,279
3544	Special dies and tools.....	86	69	4,377	3,499	77,418	458,162	65,475	146,912	366,265	697,004
3545	Metalworking machinery attachments.....	87	74	1,022	714	44,877	212,665	34,467	69,871	146,854	351,607
355	Special-industry machinery, n.e.c.....	87	85	2,900	1,350	165,746	754,538	122,581	248,598	498,197	1,214,836
3551	Food-products machinery.....	84	86	672	302	33,205	152,518	23,717	49,009	98,570	256,240
3552	Textile machinery.....	89	93	535	252	36,595	145,253	28,093	55,733	98,668	217,560
3553	Woodworking machinery.....	84	81	249	128	11,973	53,821	8,839	17,771	35,224	101,721
3554	Paper-industries machinery.....	85	86	169	53	15,003	73,713	11,516	23,745	50,057	112,565
3555	Printing-trades machinery.....	95	90	358	164	21,960	110,679	16,416	33,027	74,515	173,805
3559	Special-industry machinery, n.e.c.....	81	73	917	451	47,007	218,553	33,997	69,310	141,160	352,943
356	General industrial machinery.....	85	81	2,604	1,019	223,917	1,046,942	156,896	317,117	652,776	1,859,054
3561	Pumps and compressors.....	82	78	496	183	60,324	272,632	41,269	82,859	168,613	498,011
3562	Elevators and escalators.....	87	89	131	48	10,257	49,518	7,017	14,164	31,766	102,106
3563	Conveyors.....	77	80	389	154	32,370	161,414	22,265	46,039	95,786	286,919
3564	Blowers and fans.....	83	76	214	87	18,125	80,850	13,724	27,349	54,033	151,272
3565	Industrial trucks and tractors.....	88	83	245	121	15,797	71,824	11,061	22,123	44,813	123,044
3566	Power-transmission equipment.....	88	86	471	176	49,580	231,636	37,903	76,209	160,037	393,984
3567	Industrial furnaces and ovens.....	84	84	167	65	8,415	42,351	5,050	10,403	20,975	81,399
3568	Mechanical stokers.....	74	60	25	11	1,118	5,138	766	1,453	2,820	8,976
3569	General industrial machinery, n.e.c.....	80	66	466	174	27,927	131,575	17,837	36,513	73,929	213,340
357	Office and store machines.....	80	96	409	121	101,294	455,643	81,631	160,582	336,831	773,881
3571	Computing and related machines.....	78	93	84	32	6,692	275,809	45,014	88,484	200,953	412,048
3572	Typewriters.....	80	97	18	2	18,435	67,399	16,699	32,589	60,075	131,306
3576	Scales and balances.....	90	96	78	30	5,381	21,276	4,074	7,636	14,163	44,047
3579	Office and store machines, n.e.c.....	79	90	229	57	20,785	91,159	15,843	31,871	61,639	186,479
358	Service and household machines.....	85	90	1,137	395	196,534	875,046	148,983	294,009	600,548	1,589,044
3581	Domestic laundry equipment.....	93	81	56	8	22,105	98,556	16,710	32,497	68,066	207,395
3582	Laundry and dry-cleaning machinery.....	83	93	104	44	6,543	28,630	4,659	9,509	18,243	54,218
3583	Sewing machines.....	91	94	82	46	12,414	56,552	9,443	19,142	40,697	76,602
3584	Vacuum cleaners.....	80	88	39	15	8,383	38,867	6,408	12,717	26,903	91,850
3585	Refrigeration machinery.....	( <sup>10</sup> )	( <sup>10</sup> )	586	189	128,283	567,118	98,921	194,527	396,982	1,006,193
3586	Measuring and dispensing pumps.....	69	91	32	9	8,367	38,531	5,893	11,790	23,658	63,160
3589	Service and household machines, n.e.c.....	85	76	238	84	10,437	46,791	6,944	13,825	25,997	89,624
359	Miscellaneous machinery parts.....	90	88	9,540	7,666	260,998	1,149,836	209,026	419,529	843,358	1,910,083
3591	Valves and fittings, except plbg.....	85	86	556	175	75,016	333,213	58,425	115,312	235,730	567,518
3592	Fabricated pipe and fittings.....	92	88	250	108	12,670	62,092	9,943	19,352	43,945	123,028
3593	Ball and roller bearings.....	98	98	102	17	49,720	214,088	39,974	78,233	159,813	335,101
3594	Industrial patterns and molds.....	93	73	1,800	1,725	19,864	98,265	16,900	35,230	77,840	152,049
3599	Machine shops.....	88	86	6,832	5,641	103,727	442,177	83,782	171,400	326,031	732,387
36	Electrical machinery.....	(NA)	(NA)	5,758	1,936	959,126	3,950,994	722,443	1,422,339	2,645,588	7,403,134
361	Electrical industrial apparatus.....	88	91	2,030	644	340,000	1,494,109	250,072	493,743	984,284	2,795,415
3611	Wiring devices and supplies.....	85	86	395	152	43,195	168,474	34,882	68,944	122,166	340,911
3612	Carbon and graphite products.....	98	94	53	13	8,297	35,976	6,352	12,600	24,190	62,873
3613	Electrical measuring instruments.....	75	76	303	98	33,049	145,131	24,223	47,679	90,873	248,478
3614	Motors and generators.....	82	84	309	75	112,003	494,556	82,420	161,343	334,271	844,128
3615	Transformers.....	87	94	164	52	40,956	186,491	29,234	58,414	121,715	410,245
3616	Electrical control apparatus.....	89	91	452	118	79,314	361,398	56,183	111,372	228,245	700,477
3617	Electrical welding apparatus.....	90	92	119	59	8,186	45,719	5,484	11,400	26,427	78,645
3619	Electrical industrial apparatus, n.e.c.....	81	64	235	77	14,996	56,361	11,293	21,988	36,394	109,656
3621	Electrical appliances.....	76	74	365	154	48,582	201,827	38,661	75,562	145,587	424,031
3631	Insulated wire and cable.....	96	1027	136	24	14,410	59,011	11,579	26,672	42,142	110,317
3641	Engine electrical equipment.....	85	87	169	60	46,349	200,279	37,219	74,147	146,769	339,251
3651	Electric lamps (bulbs).....	94	99	66	7	21,963	78,921	19,172	36,750	63,205	218,137
366	Communication equipment.....	93	96	2,268	715	445,817	1,752,211	333,364	653,130	1,152,459	3,214,097
3661	Radios and related products.....	( <sup>10</sup> )	( <sup>10</sup> )	1,753	593	293,998	1,130,378	220,867	435,056	742,732	2,130,207
3662	Electronic tubes.....	97	94	157	22	70,950	254,854	57,856	112,052	186,882	461,904
3663	Phonograph records.....	94	97	143	52	6,152	23,312	4,740	9,451	15,685	57,387
3664	Telephone and telegraph equipment.....	93	96	74	6	64,663	300,589	43,717	84,627	184,124	497,829
3669	Communication equipment, n.e.c.....	87	77	141	42	10,053	43,079	6,184	11,942	23,035	66,769
369	Electrical products, n.e.c.....	95	83	724	332	42,004	164,634	32,373	62,332	111,139	301,883
3691	Storage batteries.....	100	100	308	176	15,670	66,872	11,899	23,244	46,415	127,503
3692	Primary batteries.....	98	98	41	...	10,773	36,633	8,893	16,814	27,427	62,388
3693	X-ray and therapeutic apparatus.....	81	91	130	40	7,054	32,583	4,601	9,036	17,688	51,518
3699	Electrical products, n.e.c.....	89	48	245	116	8,506	28,545	6,979	13,236	19,608	60,472

See footnotes at end of table.



## GENERAL SUMMARY

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BY INDUSTRY GROUPS AND INDUSTRIES: 1954 AND 1947—Continued

For definitions of industries, see Appendix A—Industry Descriptions)

1954—Continued		1947												
Value of shipments	Capital expenditures, new <sup>2</sup>	Primary products specialization ratio <sup>1</sup>	Cover-age ratio <sup>2</sup>	Estab-lish-ments	Pro-prie-tors and firm mem-bers	All employees		Production workers			Value added by manufacture, unadjusted <sup>4</sup>	Value of shipments	Captial expendi-tures, new <sup>2</sup>	Code
						Number <sup>3</sup>	Payroll	Number <sup>3</sup>	Man-hours	Wages				
(\$1,000)	(\$1,000)			(Number)	(Number)		(\$1,000)		(1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	
( <sup>6</sup> )	141,823	(NA)	(NA)	4,296	3,780	220,902	754,164	178,395	373,816	563,716	1,148,035	( <sup>6</sup> )	51,342	354
1,146,932	37,683	77	86	315	139	70,001	233,997	54,435	112,562	165,003	343,198	493,853	13,836	354
839,899	20,941	87	87	428	194	54,988	182,068	43,568	92,108	132,810	302,842	520,182	11,621	354
931,542	66,600	(10)	(10)	3,553	3,447	95,913	338,099	80,392	169,146	265,903	501,995	661,329	25,885	13544
476,704	16,598													
( <sup>6</sup> )	45,722	(NA)	(NA)	3,067	3,107	207,321	652,983	165,543	357,894	483,226	1,053,544	( <sup>6</sup> )	61,313	355
404,261	7,571	89	82	623	360	36,927	113,823	28,894	62,263	82,246	191,758	327,681	12,323	3551
336,785	8,528	95	93	489	255	53,583	158,446	45,393	98,607	126,142	256,436	403,385	13,692	3552
167,160	4,329	78	77	294	173	16,233	50,488	13,018	27,971	36,383	90,841	152,881	4,403	3553
196,635	4,916	85	89	149	57	17,088	57,749	13,398	29,782	41,523	81,358	151,085	6,114	3554
248,719	6,634	95	94	327	192	24,880	84,750	19,684	42,995	62,919	138,915	199,362	4,860	3555
580,515	13,742	80	78	1,185	2,070	58,610	187,727	45,156	96,276	134,013	294,236	483,275	19,921	3559
( <sup>6</sup> )	81,903	(NA)	(NA)	2,193	1,100	218,983	696,072	165,368	344,803	476,430	1,199,366	( <sup>6</sup> )	56,556	356
890,873	18,015	81	85	448	206	56,142	172,857	41,413	88,465	119,763	291,658	571,213	14,631	3561
161,024	1,429	92	91	111	56	10,227	33,998	7,317	15,331	22,890	68,614	101,815	1,855	3562
479,224	10,519	78	80	253	136	24,578	84,084	18,073	37,865	55,024	143,515	248,407	5,703	3563
261,825	5,873	75	78	192	98	14,794	44,202	11,087	23,389	30,329	84,429	140,716	3,551	3564
245,110	7,088	84	84	196	121	13,926	41,908	10,603	22,360	29,530	81,517	162,151	5,463	3565
603,633	14,964	87	84	416	209	53,995	172,466	43,739	89,127	123,823	282,004	428,868	14,620	3566
160,132	1,902	86	74	109	36	6,362	21,784	4,058	8,449	11,908	39,092	75,488	1,330	3567
13,774	(13)	71	74	46	20	4,111	12,371	3,118	6,062	8,886	22,212	38,834	1,313	3568
370,499	21,883	78	75	422	218	34,848	112,402	25,960	53,755	74,277	186,325	320,249	8,090	3569
( <sup>6</sup> )	42,067	(NA)	(NA)	356	125	97,824	304,060	83,851	175,541	246,021	501,289	( <sup>6</sup> )	37,104	357
614,265	31,571	94	94	51	21	45,611	152,678	39,770	84,168	127,569	227,245	287,639	22,295	3571
173,439	2,789	90	1097	28	6	26,604	73,177	23,838	50,520	63,509	121,385	153,924	8,862	3572
64,182	1,103	91	92	75	33	6,526	18,849	4,874	10,041	12,847	34,766	54,542	1,457	3576
276,437	6,603	89	90	202	65	19,083	59,356	15,369	30,812	42,096	117,893	177,819	4,490	3579
( <sup>6</sup> )	138,546	(NA)	(NA)	1,087	521	219,566	658,058	180,128	366,971	502,545	1,095,745	( <sup>6</sup> )	75,459	358
527,535	18,569	90	91	65	17	28,403	85,596	23,651	48,647	65,596	161,791	442,297	9,569	3581
88,065	1,062	94	94	127	67	9,093	27,435	6,888	14,790	19,015	54,347	94,361	1,694	3582
112,029	3,045	95	94	70	46	15,305	48,484	12,647	26,095	37,926	68,681	97,011	5,089	3583
157,907	2,094	84	88	34	17	14,880	44,797	12,232	24,434	35,266	91,047	160,184	4,526	3584
( <sup>6</sup> )	107,708	(10)	(10)	561	269	128,677	378,594	107,763	218,975	297,774	587,928	( <sup>6</sup> )	46,131	3585
116,543	2,002	76	98	52	15	12,083	36,972	8,884	17,090	24,174	66,223	125,052	2,436	3586
172,233	4,065	83	82	178	90	11,125	36,180	8,063	16,940	22,794	65,728	129,621	6,014	3589
( <sup>6</sup> )	104,033	(NA)	(NA)	4,913	3,397	214,519	634,273	179,954	364,789	499,271	1,055,686	( <sup>6</sup> )	59,683	359
959,012	24,869	82	90	452	187	79,713	237,921	65,522	132,012	183,763	392,090	633,771	20,877	3591
225,902	4,804	82	83	212	143	10,568	33,362	8,273	16,781	23,172	58,786	115,976	4,084	3592
537,151	27,828	94	96	94	15	52,174	153,333	45,075	91,323	125,711	259,060	365,584	21,872	3593
193,784	6,939	(NA)	(NA)	1,042	...	9,664	35,928	8,771	18,216	31,080	55,934	69,524	...	3594
1,107,706	39,588	92	77	3,113	3,052	62,400	173,729	52,313	106,457	135,545	289,816	439,877	12,850	3599
( <sup>6</sup> )	340,677	(NA)	(NA)	3,970	1,727	796,357	2,258,657	634,661	1,277,994	1,636,714	3,860,235	( <sup>6</sup> )	244,606	36
( <sup>6</sup> )	136,044	(NA)	(NA)	1,562	681	315,466	924,936	248,266	505,618	670,891	1,578,955	( <sup>6</sup> )	91,783	361
584,666	12,346	85	86	344	141	39,160	104,095	33,020	65,839	78,655	218,567	384,446	13,801	3611
111,010	6,492	95	95	44	13	7,818	22,028	6,426	12,856	16,504	40,218	68,745	1,641	3612
359,456	16,133	84	80	154	68	20,926	60,661	16,086	32,576	42,326	103,946	153,380	4,342	3613
1,389,078	38,310	81	92	253	88	125,300	368,461	100,966	205,777	279,175	564,218	995,640	36,666	3614
686,087	22,852	85	91	144	83	36,635	107,978	28,160	58,568	78,525	195,102	356,968	13,479	3615
1,096,715	31,478	86	87	321	155	67,461	204,081	49,690	101,747	137,747	358,431	579,148	17,300	3616
168,846	4,713	93	89	108	42	7,265	29,151	5,139	10,185	17,709	57,310	103,712	2,089	3617
183,250	3,717	77	53	194	91	10,901	28,481	8,779	18,070	20,250	41,163	74,356	2,465	3619
795,304	20,786	86	72	324	127	44,105	124,275	37,039	77,962	96,083	235,352	464,242	16,446	3621
323,011	7,961	96	1031	133	86	20,259	55,839	17,338	38,358	43,742	99,661	290,241	6,071	3631
587,124	18,172	89	91	112	30	44,450	126,737	38,449	74,269	103,249	198,656	357,799	7,983	3641
326,343	8,288	94	100	62	12	23,842	57,914	21,550	42,090	48,891	120,344	203,248	11,318	3651
( <sup>6</sup> )	132,581	(NA)	(NA)	1,210	476	303,391	847,247	234,706	465,488	581,158	1,374,117	( <sup>6</sup> )	96,997	366
( <sup>6</sup> )	73,594	(10)	(10)	857	337	178,595	462,207	142,478	280,163	324,300	773,233	( <sup>6</sup> )	43,714	3661
709,183	32,836	94	95	51	6	27,703	65,420	22,571	43,662	46,704	94,040	124,518	5,602	3662
84,656	2,992	96	99	111	74	10,045	29,193	8,246	17,595	22,840	75,660	110,184	7,006	3663
797,109	22,144	94	99	90	20	76,072	258,567	53,630	108,687	167,488	384,417	689,182	39,280	3664
100,194	1,013	86	83	101	39	10,976	31,860	7,781	15,381	19,826	46,767	69,592	1,395	3669
( <sup>6</sup> )	16,844	(NA)	(NA)	567	315	44,844	121,709	37,313	74,209	92,700	253,150	( <sup>6</sup> )	14,008	369
341,374	10,512	1090	1099	246	182	16,570	49,734	13,632	29,541	38,257	114,246	297,654	7,910	3691
121,831	2,088	1090	1098	38	7	10,261	24,463	9,181	18,407	20,656	45,275	85,045	1,327	3692
79,943	1,913	94	93	116	62	7,678	23,217	5,621	11,762	15,354	38,635	59,518	2,271	3693
119,244	2,330	83	52	167	64	10,335	24,295	8,879	14,499	18,433	54,994	105,747	2,500	3699

Table 2A.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS  
(For explanation of column captions see Introduction.)

Code	Industry group and industry	1954									
		Primary products specialization ratio <sup>1</sup>	Coverage ratio <sup>2</sup>	Establishments (Number)	Proprietors and firm members (Number)	All employees		Production workers			Value added by manufacture, unadjusted <sup>4</sup>
						Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>3</sup>	Man-hours (1,000)	Wages (\$1,000)	
37	Transportation equipment.....	(NA)	(NA)	5,348	2,976	1,704,572	8,295,773	1,327,078	2,714,603	6,003,250	13,925,983
371	Motor vehicles and equipment.....	96	98	2,195	1,088	695,475	3,407,657	583,048	1,201,354	2,710,237	6,406,642
3713	Truck and bus bodies.....	86	87	564	396	18,689	76,050	15,175	30,652	55,433	112,834
3715	Truck trailers.....	82	93	130	45	16,381	72,904	15,023	26,197	52,352	113,469
3716	Automobile trailers.....	99	98	275	143	11,131	43,874	9,491	18,592	33,031	68,784
3717	Motor vehicles and parts.....	(10)	(10)	1,226	504	649,274	3,214,827	545,359	1,125,912	2,569,419	6,111,554
372	Aircraft and parts.....	96	95	1,404	738	822,470	4,048,811	585,989	1,206,320	2,625,302	6,287,620
3721	Aircraft.....	89	99	72	...	457,618	2,277,320	320,445	654,781	1,441,632	3,348,876
3722	Aircraft engines.....	93	91	234	62	167,383	819,181	117,277	243,536	522,850	1,435,443
3723	Aircraft propellers.....	84	87	16	7	16,523	78,058	11,647	22,179	49,135	108,415
3729	Aircraft equipment, n.e.c.....	86	66	1,082	669	180,946	874,252	136,619	285,823	611,683	1,394,886
373	Ships and boats.....	94	98	1,509	1,055	126,352	562,070	110,905	216,612	468,903	776,415
3731	Ship building and repairing.....	92	99	355	109	109,451	504,470	96,196	187,982	421,791	691,908
3732	Boat building and repairing.....	93	85	1,154	946	16,900	57,599	14,709	28,630	47,112	84,507
374	Railroad equipment.....	83	90	86	6	51,575	243,536	39,797	76,408	173,032	403,547
3741	Locomotives and parts.....	82	95	29	3	20,891	104,274	15,968	31,439	70,575	188,322
3742	Railroad and street cars.....	83	86	57	3	30,683	139,261	23,828	44,969	102,457	215,224
3751	Motorcycles and bicycles.....	86	92	46	14	7,061	28,060	5,979	11,121	21,639	41,819
3799	Transportation equipment, n.e.c.....	92	44	108	75	1,636	5,637	1,359	2,786	4,135	9,938
38	Instruments and related products....	(NA)	(NA)	3,142	1,635	272,586	1,200,322	195,597	391,403	759,459	2,128,706
3811	Scientific instruments.....	77	64	370	168	45,315	217,831	30,797	64,264	134,801	356,713
3821	Mechanical measuring instruments.....	87	79	614	275	69,422	302,624	48,229	97,903	189,887	542,602
3831	Optical instruments and lenses.....	82	77	205	99	12,658	58,178	9,447	18,555	38,251	86,380
384	Medical instruments and supplies.....	88	86	1,057	671	38,122	149,465	27,112	53,915	90,264	272,020
3841	Surgical and medical instruments.....	86	75	208	115	6,562	23,223	5,267	11,012	17,398	41,656
3842	Surgical appliances and supplies.....	85	85	652	444	24,457	98,035	16,737	32,536	54,890	179,209
3843	Dental equipment and supplies.....	95	94	197	112	7,103	28,206	5,107	10,366	17,974	51,154
3851	Ophthalmic goods.....	83	94	238	117	18,464	64,536	15,355	29,960	48,332	110,452
3861	Photographic equipment.....	90	95	449	208	59,099	288,497	41,063	81,066	177,117	561,238
387	Watches and clocks.....	82	90	209	97	29,504	119,189	23,590	45,738	80,804	199,300
3871	Watches and clocks.....	82	90	145	69	25,708	103,232	20,282	39,125	67,962	179,069
3872	Watchcases.....	86	85	64	28	3,795	15,957	3,308	6,612	12,841	20,231
39	Miscellaneous manufactures <sup>9</sup> .....	(NA)	(NA)	17,010	11,472	695,917	2,658,182	555,746	1,089,229	1,861,873	4,473,050
391	Jewelry and silverware.....	93	96	2,101	1,712	47,930	182,808	38,952	77,435	129,740	297,580
3911	Jewelry (precious metal).....	93	96	1,327	1,131	23,455	90,373	18,440	36,438	58,382	145,567
3912	Jewelers' findings.....	92	91	234	141	5,371	18,911	4,542	9,281	13,414	31,369
3913	Lapidary work.....	97	91	333	358	1,759	5,459	1,591	2,757	4,067	10,608
3914	Silverware and plated ware.....	91	97	207	82	17,345	68,064	14,379	28,957	53,876	110,034
393	Musical instruments and parts.....	96	96	242	119	15,407	61,219	13,230	26,329	48,242	93,072
3931	Pianos.....	88	100	27	1	5,759	24,079	4,945	9,508	18,596	32,436
3932	Organs.....	98	74	31	12	1,762	6,579	1,521	3,151	5,264	8,664
3933	Piano and organ parts.....	95	88	40	18	3,032	11,613	2,743	5,703	9,896	25,239
3939	Musical instruments, n.e.c.....	88	95	144	88	4,853	18,947	4,020	7,965	14,484	26,731
394	Toys and sporting goods.....	93	91	2,461	1,582	88,559	266,135	76,476	142,087	199,327	469,413
3941	Games and toys, n.e.c.....	95	89	886	488	38,242	113,208	32,789	60,813	83,227	208,484
3942	Dolls.....	92	97	484	364	15,119	38,938	13,792	24,618	30,657	66,289
3943	Children's vehicles.....	76	90	60	20	6,278	24,308	5,454	10,553	19,354	36,499
3949	Sporting and athletic goods.....	90	86	1,031	710	28,919	89,681	24,439	46,101	66,087	158,153
395	Office supplies.....	...	...	832	556	28,218	109,046	20,662	41,874	64,550	195,080
3951	Pens and mechanical pencils.....	89	95	140	71	10,879	44,123	8,089	16,428	25,191	83,793
3952	Lead pencils and crayons.....	83	94	60	19	5,029	17,135	3,794	7,775	10,802	29,224
3953	Hand stamps and stencils.....	90	89	453	386	5,654	21,857	4,056	8,123	13,764	32,466
3954	Artists' materials.....	84	76	95	55	1,913	6,585	1,467	2,875	4,033	11,836
3955	Carbon paper and inked ribbons.....	93	83	84	25	4,742	19,344	3,255	6,671	10,757	37,758
396	Costume jewelry and notions.....	91	94	2,364	1,827	66,675	200,398	57,282	108,747	146,050	316,497
3961	Costume jewelry.....	95	95	1,127	833	27,744	79,017	24,269	46,679	58,445	129,239
3962	Artificial flowers.....	97	98	471	413	7,306	17,299	6,690	12,009	13,446	28,952
3963	Buttons.....	92	89	409	388	8,471	23,235	7,430	14,123	17,483	36,679
3964	Needles, pins, and fasteners.....	82	91	357	193	23,152	80,846	18,893	35,935	56,674	121,625
3971	Plastics products, n.e.c.....	90	84	2,439	1,073	91,967	350,227	75,689	152,179	248,975	589,254

See footnotes at end of table.



## GENERAL SUMMARY

21

BY INDUSTRY GROUPS AND INDUSTRIES: 1954 AND 1947—Continued

For definitions of industries, see Appendix A—Industry Descriptions)

1954—Continued		1947												
Value of shipments	Capital expenditures, new <sup>5</sup>	Primary products specialization ratio <sup>1</sup>	Cover-age ratio <sup>2</sup>	Estab-lish-ments	Pro-prie-tors and firm mem-bers	All employees		Production workers			Value added by manufacture, unad-justed <sup>4</sup>	Value of shipments	Capital ex-pen-di-tures, new <sup>5</sup>	Code
						Number <sup>3</sup>	Payroll	Number <sup>3</sup>	Man-hours	Wages				
(\$1,000)	(\$1,000)			(Number)	(Number)		(\$1,000)		(1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	
( <sup>6</sup> )	924,646	(NA)	(NA)	3,703	2,534	1,174,498	3,694,932	981,103	1,961,398	2,920,813	5,841,722	( <sup>6</sup> )	354,974	37
( <sup>6</sup> )	730,837	(NA)	(NA)	1,894	1,225	693,763	2,182,323	593,201	1,173,977	1,778,433	3,790,866	( <sup>6</sup> )	288,053	371
232,514	3,445	79	90	603	546	26,646	78,386	22,876	47,209	62,664	127,429	242,297	8,762	3713
305,510	2,788	81	87	120	63	12,488	36,287	9,741	19,708	25,964	67,570	155,686	6,147	3715
230,836	2,404	98	99	220	182	9,562	27,778	8,529	17,412	22,892	50,943	138,006	3,424	3716
( <sup>6</sup> )	722,199	( <sup>10</sup> )	( <sup>10</sup> )	951	434	645,067	2,039,872	552,055	1,089,648	1,666,913	3,544,924	( <sup>6</sup> )	269,720	3717
( <sup>6</sup> )	142,206	(NA)	(NA)	332	201	219,611	703,702	162,596	329,452	476,297	954,575	( <sup>6</sup> )	27,867	372
6,267,147	59,446	( <sup>10</sup> )	( <sup>10</sup> )	58	4	146,625	462,906	110,332	221,796	316,795	605,983	( <sup>6</sup> )	7,901	3721
3,188,950	46,689	90	95	59	23	50,423	166,308	36,019	74,187	110,716	252,254	464,623	13,651	3722
210,094	4,320	( <sup>10</sup> )	( <sup>10</sup> )	13	4	7,423	25,666	4,822	9,916	15,230	26,685	( <sup>6</sup> )	3,361	3723
2,342,536	31,750	82	38	202	170	15,140	48,822	11,423	23,553	33,556	69,653	105,327	2,954	3729
( <sup>6</sup> )	24,120	95	99	1,110	884	149,655	467,585	132,033	269,136	394,371	586,558	( <sup>6</sup> )	11,546	373
1,077,889	19,316	94	98	302	107	130,805	417,829	115,232	235,186	352,401	520,363	802,561	8,982	3731
154,369	4,804	83	88	808	777	18,850	49,756	16,801	33,950	41,970	66,195	114,374	2,564	3732
( <sup>6</sup> )	25,445	(NA)	(NA)	123	20	91,270	284,003	75,724	152,127	225,186	416,222	( <sup>6</sup> )	21,681	374
428,281	6,370	95	83	36	11	30,419	97,896	25,432	50,828	78,338	143,092	355,205	10,021	3741
495,767	19,074	91	(NA)	87	9	60,851	186,107	50,292	101,299	146,848	273,130	726,167	11,660	3742
95,649	1,476	87	89	76	34	15,615	45,661	13,659	28,245	37,732	72,838	163,670	4,600	3751
21,662	561	82	67	168	170	4,584	11,658	3,890	8,461	8,794	20,663	46,843	1,227	3799
( <sup>6</sup> )	94,008	(NA)	(NA)	2,605	1,661	244,872	706,055	194,303	389,940	502,168	1,140,499	( <sup>6</sup> )	56,000	38
580,916	8,615	81	82	215	122	18,419	56,015	13,526	27,228	37,738	75,922	117,312	4,489	3811
804,257	21,487	84	81	466	274	60,481	173,888	46,742	93,094	122,379	281,482	423,381	8,846	3821
117,649	4,555	93	75	115	90	8,478	24,737	6,682	13,611	17,965	34,090	45,344	1,520	3831
( <sup>6</sup> )	12,401	(NA)	(NA)	980	686	39,127	111,019	30,024	60,226	72,660	188,838	( <sup>6</sup> )	9,014	384
62,649	975	83	88	139	102	6,980	20,297	5,818	11,702	15,281	30,214	45,121	898	3841
338,449	9,991	81	91	628	458	23,073	65,097	17,074	34,277	40,075	115,699	256,604	5,730	3842
79,171	1,434	97	94	213	126	9,074	25,625	7,132	14,247	17,304	42,925	71,102	2,386	3843
157,939	5,042	86	97	184	96	22,562	57,112	19,847	39,645	46,507	87,205	121,153	3,722	3851
867,597	37,924	93	97	369	216	55,624	172,973	42,365	85,038	121,456	278,502	457,497	23,145	3861
( <sup>6</sup> )	3,981	(NA)	(NA)	276	177	40,181	110,311	35,117	71,098	83,463	194,460	( <sup>6</sup> )	5,264	387
330,043	3,511	97	98	194	119	34,623	93,331	30,237	60,899	70,372	169,474	341,199	4,743	3871
34,991	( <sup>13</sup> )	87	94	82	58	5,558	16,980	4,880	10,199	13,091	24,986	44,494	521	3872
( <sup>6</sup> )	176,036	(NA)	(NA)	14,148	11,849	463,390	1,205,212	396,002	811,288	917,572	2,066,259	( <sup>6</sup> )	106,960	39
( <sup>6</sup> )	7,339	(NA)	(NA)	2,032	1,855	55,169	168,485	46,129	99,125	127,506	304,363	( <sup>6</sup> )	10,185	391
258,147	1,836	92	95	1,344	1,264	25,566	76,462	20,610	42,877	54,222	140,478	248,185	2,674	3911
69,325	1,558	92	93	182	153	6,056	17,350	5,203	11,001	12,389	29,714	73,530	2,005	3912
33,564	( <sup>13</sup> )	98	98	270	323	1,699	5,524	1,525	3,068	4,539	10,860	30,269	148	3913
211,083	3,826	98	97	236	115	21,848	69,149	18,791	42,179	56,363	123,311	221,584	5,358	3914
( <sup>6</sup> )	1,922	(NA)	(NA)	260	192	16,889	46,808	14,814	31,269	38,198	71,356	( <sup>6</sup> )	2,445	393
64,723	513	94	100	27	3	6,978	20,573	6,170	13,204	16,948	31,097	55,086	1,138	3931
28,945	( <sup>13</sup> )	85	70	27	3	1,337	3,362	1,131	2,428	2,647	5,190	12,372	241	3932
35,474	542	95	82	37	32	3,209	8,402	2,928	6,223	7,185	12,947	19,865	565	3933
40,215	704	93	90	169	157	5,365	14,471	4,585	9,414	11,418	22,122	31,366	501	3939
( <sup>6</sup> )	17,599	(NA)	(NA)	2,197	1,861	75,476	173,811	67,214	132,441	138,333	294,644	( <sup>6</sup> )	16,829	394
382,665	8,358	92	90	837	701	27,140	60,554	24,174	47,093	47,403	105,414	181,939	6,811	3941
142,732	2,247	89	98	377	372	9,797	21,847	8,886	17,386	17,739	37,577	69,786	1,107	3942
76,650	( <sup>13</sup> )	81	79	120	62	8,783	24,735	7,773	15,972	19,423	44,204	85,831	1,560	3943
293,735	5,662	94	90	863	726	29,756	66,675	26,381	51,990	53,768	107,449	202,303	7,351	3949
( <sup>6</sup> )	7,399	(NA)	(NA)	786	580	31,429	81,657	24,634	50,264	55,250	162,599	( <sup>6</sup> )	7,099	395
128,540	3,054	93	95	184	113	15,553	40,606	12,527	24,705	28,207	89,897	147,368	3,865	3951
54,892	1,741	91	90	50	22	6,279	14,726	5,190	10,409	10,409	23,633	45,037	1,105	3952
47,627	1,060	89	89	425	368	4,556	12,483	3,362	7,150	8,426	19,486	27,459	924	3953
23,599	( <sup>13</sup> )	79	74	60	45	1,360	3,220	997	2,006	1,944	5,968	13,298	265	3954
81,190	1,120	<sup>10</sup> 90	<sup>10</sup> 90	67	32	3,681	10,622	2,558	5,677	6,264	23,615	48,636	940	3955
( <sup>6</sup> )	10,165	(NA)	(NA)	2,035	1,974	66,024	153,803	57,732	117,519	118,765	263,024	( <sup>6</sup> )	10,370	396
239,409	3,621	90	91	859	805	25,371	59,487	22,266	46,532	45,979	107,224	170,294	3,146	3961
49,990	( <sup>13</sup> )	97	99	445	525	7,130	13,448	6,569	12,348	10,713	23,813	39,463	515	3962
64,769	1,139	93	94	454	457	10,564	22,077	9,556	19,330	17,745	34,695	59,533	1,131	3963
203,122	4,981	91	89	277	187	22,959	58,791	19,341	39,309	44,328	97,292	147,221	5,578	3964
1,192,895	45,290	91	89	1,362	805	58,400	156,369	49,502	102,331	119,455	258,917	472,957	27,042	3971

## GENERAL SUMMARY

Table 2A.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS

(For explanation of column captions see Introduction.)

Code	Industry group and industry	1954									
		Primary products specialization ratio <sup>1</sup>	Coverage ratio <sup>2</sup>	Establishments (Number)	Proprietors and firm members (Number)	All employees		Production workers			Value added by manufacture, unadjusted <sup>4</sup>
						Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>3</sup>	Man-hours (1,000)	Wages (\$1,000)	
398	Miscellaneous manufactures <sup>9</sup> .....	(NA)	(NA)	6,571	4,603	357,153	1,488,343	273,449	540,574	1,024,984	2,512,162
399	Brooms and brushes.....	91	92	698	566	16,826	54,789	13,534	25,595	36,294	91,737
3981	Cork products.....	81	69	35	14	2,117	8,097	1,771	3,507	6,233	19,843
3982	Matches.....	100	98	20	1	6,191	21,308	5,147	10,290	15,945	35,391
3983	Candles.....	87	93	89	56	3,010	9,420	2,289	4,716	6,112	16,486
3984	Fireworks and pyrotechnics.....	89	89	78	32	2,637	7,443	2,334	4,398	5,552	11,931
3985	Jewelry and instrument cases.....	85	92	166	106	8,003	25,050	6,437	12,438	16,979	37,559
3986	Lamp shades.....	93	96	325	287	5,025	12,542	4,524	8,394	9,957	21,492
3987	Morticians' goods.....	97	97	563	346	16,729	59,233	13,302	26,499	40,001	92,024
3988	Beauty and barber-shop equipment.....	92	71	67	23	1,719	6,936	1,419	3,016	4,741	11,963
3991	Furs, dressed and dyed.....	(10)	(10)	160	103	3,459	16,420	3,005	4,822	13,108	23,901
3992	Signs and advertising displays.....	93	92	2,620	2,088	33,581	135,578	26,205	51,681	90,602	216,666
3993	Hairwork.....	96	97	131	110	1,708	4,440	1,463	2,583	3,252	7,296
3994	Umbrellas, parasols, and canes.....	95	92	140	109	3,210	9,364	2,873	5,150	6,965	14,917
3995	Tobacco pipes.....	99	98	43	22	1,521	4,768	1,337	2,501	3,561	7,260
3996	Soda-fountain and bar equipment.....	83	74	50	21	1,445	6,422	1,129	2,231	4,487	10,808
3997	Miscellaneous products, n.e.c.....	84	88	893	598	20,765	73,740	16,336	31,582	48,010	123,805
3999	Ordnance and accessories.....	(NA)	(NA)	493	121	229,191	1,032,781	170,326	341,151	713,169	1,769,065

Note: Detailed figures may not add to totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>The "Primary product specialization ratio" measures the extent to which plants classified in the industry "specialize" in making products classified as primary to the industry. That is, value of shipments of primary products of plants in the industry is expressed as a ratio of the total shipments of all products made by these establishments, (excluding "miscellaneous receipts," such as receipts for contract and commission work on materials owned by others, scrap and salable refuse, repair, etc.).

<sup>2</sup>The "Coverage ratio" measures the extent to which all shipments of primary products of an industry are made by plants classified in the industry. That is, value of shipments of the primary products made by plants classified in the industry is expressed as a ratio of the total shipments of primary products made by all producers, both in and out of the specified industry.

<sup>3</sup>For most industries in 1954 the data for "All employees" and "Production workers" are based on reported data for the payroll periods ended nearest the 15th of March, May, August, and November. For 1947 and in 1954 for industries of a seasonal type an average based on the mid-month employment for 12 months was used.

<sup>4</sup>Unadjusted value added by manufacture represents value of products shipped less cost of materials, supplies, fuel, electric energy and contract work.

<sup>5</sup>Does not include expenditures for plants under construction and not yet in operation. Figures for such capital expenditures will be shown in other tables.

<sup>6</sup>The total value of shipments figures for industry groups (2- and 3- digit) and a few individual industries (4-digit) have not been published due to the extensive duplication arising from shipments from one establishment to another in the same industry classification. (See Introduction.)

<sup>7</sup>The 1954 and 1947 "all industries" totals are not strictly comparable because of differences in scope between the two years in Major groups 20 and 24 (see footnote 8).

<sup>8</sup>Comparable data are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude establishments in S.I.C. Industry 2411, Logging Camps and Contractors, which are included in the scope of the 1954 Census; the 1947 Census also excludes plants processing and distributing fluid milk which in 1954 were classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Industry group		Estab-lish-ments  Number	Pro-prie-tors and firm mem-bers  Number	All employees		Production workers			Value added by manu-facture, unad-justed  (\$1,000)	Capital expendi-tures, new  (\$1,000)
				Number	Payroll  (\$1,000)	Number	Man-hours  (1,000)	Wages  (\$1,000)		
1954										
20	Food and kindred products except subgroup 202, Dairy products.....	30,871	22,056	1,363,773	5,115,209	985,043	1,983,675	3,251,908	11,143,480	625,927
24	Lumber and wood products except Industry 2411, Logging camps and contractors.....	28,619	28,041	570,426	1,722,898	513,749	991,380	1,422,564	2,798,481	168,729
1947										
20	Food and kindred products except subgroup 202, Dairy products.....	34,507	28,260	1,349,100	3,559,879	1,030,356	2,208,047	2,412,296	8,427,804	737,352
24	Lumber and wood products except Industry 2411, Logging camps and contractors.....	26,312	29,272	641,799	1,351,957	601,412	1,255,102	1,191,052	2,520,402	171,574

See tables in the Dairy Products section of the Industry Volume for additional details.



## GENERAL SUMMARY

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BY INDUSTRY GROUPS AND INDUSTRIES: 1954 AND 1947—Continued

For definitions of industries, see Appendix A—Industry Descriptions

1954—Continued		1947												
Value of shipments	Capital expenditures, new <sup>5</sup>	Primary products specialization ratio <sup>1</sup>	Coverage ratio <sup>2</sup>	Establishments	Proprietors and firm members	All employees		Production workers			Value added by manufacture, unadjusted <sup>4</sup>	Value of shipments	Capital expenditures, new <sup>5</sup>	Code
						Number <sup>3</sup>	Payroll	Number <sup>3</sup>	Man-hours	Wages				
(\$1,000)	(\$1,000)			(Number)	(Number)		(\$1,000)		(1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	
(6)	86,319	(NA)	(NA)	5,476	4,582	160,003	424,279	135,977	278,339	320,065	711,356	(6)	32,990	{ 398 399
185,445	3,074	94	97	706	659	18,551	44,875	15,543	30,617	31,162	87,288	179,811	4,715	3981
39,910	1,486	88	75	36	8	2,485	6,802	2,150	4,562	5,427	11,657	30,077	986	3982
60,633	846	<sup>10</sup> 100	100	29	1	7,350	16,422	6,612	13,724	13,406	31,302	56,657	2,748	3983
29,288	822	91	87	54	40	2,405	5,596	1,933	3,972	3,704	8,911	17,906	1,299	3984
21,715	(13)	97	96	73	24	3,251	6,694	2,982	5,954	5,706	8,626	15,219	649	3985
64,502	781	85	80	165	140	7,212	15,848	6,525	13,252	12,737	26,335	43,005	764	3986
38,677	(13)	93	93	291	288	4,488	8,473	4,100	8,275	7,043	14,668	27,499	327	3987
166,141	2,846	90	97	568	355	22,375	60,002	18,242	38,987	42,388	92,395	188,829	3,441	3988
20,520	(13)	77	68	84	25	3,199	9,009	2,651	5,622	6,254	14,386	25,504	263	3991
29,060	(13)	( <sup>10</sup> )	( <sup>10</sup> )	176	126	6,904	25,766	6,197	12,814	21,866	43,277	53,089	503	3992
353,340	6,967	95	88	1,982	1,783	28,489	81,190	23,987	49,051	61,339	128,969	204,731	5,540	3993
13,701	(13)	95	99	87	90	1,170	2,436	1,046	2,039	2,040	4,380	8,151	51	3994
31,613	(13)	97	100	164	179	3,585	8,360	3,267	6,628	6,490	15,421	34,348	526	3995
10,542	(13)	(D)	(D)	76	47	3,140	8,810	2,745	5,552	6,302	13,738	19,325	110	3996
19,918	(13)	83	76	67	45	2,739	8,488	2,231	4,822	6,524	16,254	31,504	770	3997
234,939	6,761	89	92	876	753	22,727	58,000	18,856	37,792	41,731	102,427	199,476	3,887	3999
(6)	61,073	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	19--

<sup>9</sup>Includes privately owned and/or operated establishments classified in Industry Group 19, "Ordnance and Accessories." Government owned and operated establishments are excluded from the annual survey and the census data.

<sup>10</sup>For further qualifications of the ratio for this industry see Appendix A—Industry Descriptions.

<sup>11</sup>Includes data for Industry 2012, Custom Slaughtering.

<sup>12</sup>Includes data for Industry 2014, Sausage Casings.

<sup>13</sup>Less than \$500 thousand.

<sup>14</sup>Includes data for Industry 2225, Yarn Mills, silk system.

<sup>15</sup>Data for 1954 include reports for establishments which are owned by the government but privately operated and exclude data for T.V.A. The 1947 figures exclude data for government owned but privately operated establishments but include data for T.V.A.

## GENERAL SUMMARY

Table 2B.—UNADJUSTED AND ADJUSTED VALUE ADDED FOR INDUSTRIES AND INDUSTRY GROUPS: 1954

(In thousands of dollars. For explanation of column captions see Introduction)

Code	Industry and industry group	Value added by manufacture, unadjusted <sup>1</sup>	Value added by merchandising (resales)	Net change in finished products and work-in- process inventories between the beginning and end of 1954 <sup>2</sup>	Adjusted value added <sup>1</sup>
	All industries, total.....	116,912,526	1,760,131	-1,222,112	117,450,545
20	Food and kindred products.....	13,400,218	356,788	12,426	13,769,432
21	Tobacco manufactures.....	988,001	2,462	13,593	1,004,056
22	Textile mill products.....	4,748,586	36,574	-75,910	4,709,250
23	Apparel and related products.....	5,147,371	67,577	-49,401	5,165,547
24	Lumber and wood products.....	3,188,409	64,727	-11,530	3,241,606
25	Furniture and fixtures.....	1,966,410	27,089	4,007	1,997,506
26	Pulp, paper and products.....	4,580,944	24,847	24,362	4,630,153
27	Printing and publishing.....	6,264,558	147,592	( <sup>3</sup> )	3,641,150
28	Chemicals and products.....	9,443,629	178,661	-11,110	9,611,180
29	Petroleum and coal products.....	2,582,613	37,876	1,510	2,621,999
30	Rubber Products.....	1,903,702	56,230	-5,531	1,954,401
31	Leather and leather goods.....	1,637,417	11,593	-8,206	1,640,804
32	Stone, clay and glass products.....	3,821,659	50,436	-5,866	3,866,229
33	Primary metal industries.....	9,372,910	29,149	-11,624	9,390,435
34	Fabricated metal products.....	7,596,275	136,792	-79,676	7,653,391
35	Machinery, except electrical.....	12,338,923	218,330	-374,662	12,182,591
36	Electrical machinery.....	7,403,134	119,768	-223,295	7,299,607
37	Transportation equipment.....	13,925,983	80,281	-230,319	13,775,945
38	Instruments and related products.....	2,128,706	50,072	-47,165	2,131,613
39	Miscellaneous manufactures <sup>4</sup> .....	4,473,050	63,287	-143,714	4,392,623
20	Food and kindred products.....	13,400,218	356,788	12,426	13,769,432
201	Meat products.....	1,930,974	36,172	-28,839	1,938,307
2011	Meat packing plants.....	1,394,486	22,497	-19,808	1,397,175
2013	Prepared meats.....	330,312	8,405	-4,966	333,751
2015	Poultry dressing plants.....	206,175	5,270	-4,065	207,380
202	Dairy products.....	2,256,738	63,275	-17,467	2,302,546
2021	Creamery butter.....	136,953	9,693	-4,247	142,399
2022	Natural cheese.....	88,716	2,476	624	91,816
2023	Concentrated milks.....	170,566	1,708	-6,979	165,295
2024	Ice cream and ices.....	327,898	8,518	-986	335,430
2025	Special dairy products.....	56,965	1,165	-5,115	53,015
2026	Fluid milk only.....	98,940	3,770	496	103,206
2027	Fluid milk and other products.....	1,376,698	35,945	-1,260	1,411,383
203	Canned and frozen foods.....	1,301,195	22,653	48,750	1,372,598
2031	Canned seafood.....	70,387	3,050	20,479	93,916
2032	Cured fish.....	10,512	802	59	11,373
2033	Canned fruits and vegetables.....	830,019	11,014	9,081	850,114
2034	Dehydrated fruits and vegetables.....	55,176	166	697	56,039
2035	Pickles and sauces.....	140,925	4,373	-2,242	143,056
2036	Packaged seafood.....	45,657	1,607	1,465	48,729
2037	Frozen fruits and vegetables.....	148,517	1,641	19,211	169,369
204	Grain mill products.....	1,217,055	65,736	5,414	1,288,205
2041	Flour and meal.....	315,143	15,088	403	330,634
2042	Prepared animal feeds.....	584,135	42,696	3,132	629,963
2043	Cereal breakfast foods.....	172,283	5,439	-551	177,171
2044	Rice milling.....	42,359	127	1,818	44,304
2045	Flour mixes.....	103,134	2,386	612	106,132
205	Bakery products.....	1,977,188	78,762	996	2,056,946
2051	Bread and related products.....	1,568,933	67,799	81	1,636,813
2052	Biscuit and crackers.....	408,254	10,963	915	420,132
206	Sugar.....	250,759	1,275	12,727	264,761
2061	Raw cane sugar.....	15,431	8	2,201	17,640
2062	Cane-sugar refining.....	138,971	119	-5,710	133,380
2063	Beet sugar.....	96,357	1,148	16,236	113,741
207	Candy and related products.....	596,211	7,230	6,412	609,853
2071	Confectionery products.....	422,314	7,165	2,404	431,883
2072	Chocolate and cocoa products.....	81,745	33	3,963	85,741
2073	Chewing gum.....	92,150	32	45	92,227
208	Beverages.....	2,237,428	30,332	-21,183	2,246,577
2081	Bottled soft drinks.....	635,045	14,681	1,436	651,162
2082	Beer and ale.....	1,100,741	3,923	1,639	1,106,303
2083	Malt.....	48,149	633	1,530	50,312
2084	Wines and brandy.....	96,749	1,933	1,712	100,394
2085	Distilled liquor, except brandy.....	356,741	9,162	-27,500	338,403
209	Miscellaneous foods.....	1,632,667	51,353	5,616	1,689,636
2091	Leavening compounds.....	45,350	321	-49	45,622
2092	Shortening and cooking oils.....	175,988	1,487	6,344	183,819
2093	Margarine.....	42,467	894	624	43,985
2094	Corn wet milling.....	176,696	1,046	980	178,722
2095	Flavorings.....	219,445	1,938	373	221,756
2097	Manufactured ice.....	115,469	8,558	-194	123,833
2098	Macaroni and spaghetti.....	50,951	1,308	309	52,568
2099	Food preparations, nec.....	806,298	35,801	-2,771	839,328

See footnotes at end of table.



## GENERAL SUMMARY

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Table 2B.—UNADJUSTED AND ADJUSTED VALUE ADDED FOR INDUSTRIES AND INDUSTRY GROUPS: 1954—Continued

(In thousands of dollars. For explanation of column captions see Introduction)

Code	Industry and industry group	Value added by manufacture, unadjusted <sup>1</sup>	Value added by merchandising (resales)	Net change in finished products and work-in-process inventories between the beginning and end of 1954	Adjusted value added <sup>1</sup>
21	Tobacco manufactures.....	988,001	2,462	13,593	1,004,056
2111	Cigarettes.....	677,252	141	-800	676,593
2121	Cigars.....	165,312	181	2,873	168,366
2131	Chewing and smoking tobacco.....	80,057	265	-703	79,619
2141	Tobacco stemming and redrying.....	65,378	1,875	12,223	79,476
22	Textile mill products.....	4,748,586	36,574	-75,910	4,709,250
221	Woolen and worsted manufactures.....	452,906	800	-17,051	436,655
2211	Scouring and combing plants.....	35,084	343	-1,904	33,523
2212	Yarn mills, wool, except carpet.....	78,971	49	-6,275	72,745
2213	Woolen and worsted fabrics.....	315,706	163	-9,614	306,255
2216	Finishing wool textiles.....	23,143	245	742	24,130
222	Yarn and thread mills.....	415,492	1,092	-11,316	405,268
2222	Yarn throwing mills.....	53,964	355	79	54,398
2223	Thread mills.....	62,694	638	-926	62,406
2224	Yarn mills, cotton system.....	298,833	99	-10,469	288,463
223	Broad-woven fabrics.....	1,550,272	4,474	-10,817	1,543,929
2233	Cotton broad-woven fabrics.....	1,127,507	2,404	5,454	1,135,365
2234	Synthetic broad-woven fabrics.....	422,765	2,070	-16,271	408,564
2241	Narrow fabric mills.....	121,547	2,870	-404	124,013
225	Knitting mills.....	938,138	18,364	-16,686	939,816
2251	Full-fashioned hosiery mills.....	266,993	5,362	-1,576	270,779
2252	Seamless hosiery mills.....	202,477	1,591	-912	203,156
2253	Knit outerwear mills.....	231,702	9,989	-5,196	236,495
2254	Knit underwear mills.....	110,591	934	-6,786	104,739
2255	Knit glove mills.....	6,192	30	-422	5,800
2256	Knit fabric mills.....	113,122	390	-1,891	111,621
2259	Knitting mills, nec.....	7,059	68	99	7,226
2261	Finishing textiles, except wool.....	464,165	545	-2,345	462,365
227	Carpets and rugs.....	360,856	3,190	-11,634	352,412
2271	Wool carpets and rugs.....	191,409	2,046	-12,496	180,959
2273	Carpets and rugs, except wool.....	67,110	159	919	68,188
2274	Hard-surface floor coverings.....	102,337	985	-57	103,265
228	Hats (except cloth and millinery).....	61,886	880	-2,325	60,441
2281	Fur-felt hats and hat bodies.....	39,160	522	-1,454	38,228
2282	Wool-felt hats and hat bodies.....	7,250	58	-647	6,661
2283	Straw hats.....	11,573	274	-222	11,625
2284	Hatter's fur.....	3,902	26	-1	3,927
229	Miscellaneous textile goods.....	383,320	4,359	-3,332	384,347
2291	Felt goods, nec.....	41,656	545	409	42,610
2292	Lace goods.....	37,734	258	-421	37,571
2293	Padding and upholstery filling.....	61,499	1,009	125	62,633
2294	Processed textile waste.....	30,723	1,435	27	32,185
2295	Coated fabric, except rubberized.....	80,294	142	-568	79,868
2298	Cordage and twine.....	77,298	185	-3,972	73,511
2299	Textile goods, nec.....	54,115	785	1,068	55,968
23	Apparel and related products.....	5,147,371	67,577	-49,401	5,165,547
231	Men's and boys' suits and coats.....	548,168	5,345	-14,902	538,611
2311	Men's and boys' suits and coats.....	536,880	5,303	-14,949	527,234
2312	Suit and coat findings.....	11,288	42	47	11,377
232	Men's and boys' furnishings.....	1,008,357	19,317	-21,308	1,006,366
2321	Men's dress shirts and nightwear.....	372,941	6,568	-9,380	370,129
2322	Men's and boys' underwear.....	29,952	1,172	329	31,453
2323	Men's and boys' neckwear.....	48,237	1,990	-876	49,351
2325	Men's and boys' cloth hats.....	33,030	720	-521	33,229
2326	Hat and cap materials.....	4,579	117	...	4,696
2327	Separate trousers.....	181,309	899	-1,824	180,384
2328	Work shirts.....	16,652	1	-55	16,598
2329	Men's and boys' clothing, nec.....	321,655	7,850	-8,981	320,524
233	Women's and misses' outerwear.....	1,686,067	14,436	-4,127	1,696,376
2331	Blouses.....	165,352	669	-108	165,913
2333	Dresses, unit price.....	661,292	1,426	-530	662,188
2334	Dresses, dozen price.....	205,070	4,148	-1,548	207,670
2337	Women's suits, coats, and skirts.....	529,623	2,573	-622	531,574
2338	Women's neckwear and scarfs.....	9,676	2,759	-412	12,023
2339	Women's outerwear, nec.....	115,046	2,861	-906	117,001
234	Women's and children's undergarments.....	513,256	2,071	-5,546	509,781
2341	Women's and children's underwear.....	298,385	1,509	-4,725	295,169
2342	Corsets and allied garments.....	214,870	562	-821	214,611
2351	Millinery.....	101,180	693	-255	101,618

See footnotes at end of table.

## GENERAL SUMMARY

Table 2B.—UNADJUSTED AND ADJUSTED VALUE ADDED FOR INDUSTRIES AND INDUSTRY GROUPS: 1954—Continued

(In thousands of dollars. For explanation of column captions see Introduction)

Code	Industry and industry group	Value added by manufacture, unadjusted <sup>1</sup>	Value added by merchandising (resales)	Net change in finished products and work-in- process inventories between the beginning and end of 1954 <sup>2</sup>	Adjusted value added <sup>1</sup>
	Apparel and related products—Con.				
236	Children's outerwear.....	322,052	1,434	-3,005	320,481
2361	Children's dresses.....	127,587	143	43	127,773
2363	Children's coats.....	72,601	172	-770	72,003
2369	Children's outerwear, nec.....	121,863	1,119	-2,278	120,704
2371	Fur goods.....	74,755	1,952	-864	75,843
238	Miscellaneous apparel.....	266,605	5,694	-3,452	268,847
2381	Fabric dress gloves.....	17,271	237	-409	17,099
2382	Fabric work gloves.....	29,561	593	192	30,346
2383	Suspenders and garters.....	4,194	31	-76	4,149
2384	Robes and dressing gowns.....	44,027	94	-892	43,229
2385	Waterproof outer garments.....	59,342	511	-912	58,941
2386	Leather and sheep-lined clothing.....	24,248	103	-781	23,570
2387	Belts.....	58,010	2,389	-268	60,131
2388	Handkerchiefs.....	14,366	726	-95	14,997
2389	Apparel, nec.....	15,582	1,010	-210	16,382
239	Fabricated textiles, nec.....	626,928	16,635	4,058	647,621
2391	Curtains and draperies.....	61,392	1,428	996	63,816
2392	Housefurnishings, nec.....	173,910	3,909	717	178,536
2393	Textile bags.....	51,641	2,728	745	55,114
2394	Canvas products.....	61,442	3,930	-208	65,164
2395	Tucking, pleating and stitching.....	27,904	30	18	27,952
2396	Trimings and art goods.....	87,687	1,628	1,941	91,256
2397	Schiffli-machine embroideries.....	34,396	572	-98	34,870
2398	Embroideries, except Schiffli.....	41,280	487	-1	41,766
2399	Fabricated textile products, nec.....	87,272	1,923	-52	89,143
24	Lumber and wood products.....	3,188,409	64,727	-11,530	3,241,606
2411	Logging camps and contractors.....	389,928	4,180	-1,342	392,766
242	Lumber and basic products.....	1,595,384	22,228	-7,202	1,610,410
2421	Sawmills and planing mills.....	1,502,911	21,450	-6,611	1,517,750
2422	Veneer mills.....	59,250	312	-491	59,071
2423	Shingle mills.....	15,451	385	422	16,258
2424	Cooperage stock mills.....	10,843	39	-568	10,314
2425	Excelsior mills.....	6,928	42	45	7,015
243	Millwork and related products.....	709,768	30,611	3,264	743,643
2431	Millwork plants.....	374,518	28,202	5,751	408,471
2432	Plywood plants.....	246,250	813	-2,421	244,642
2433	Prefabricated wood products.....	88,999	1,596	-66	90,529
244	Wooden containers.....	215,297	4,559	-5,107	214,749
2441	Fruit and vegetable baskets.....	18,961	126	237	19,324
2442	Rattan and willow ware.....	5,329	249	-62	5,516
2443	Cigar boxes.....	3,988	3	40	4,031
2444	Wooden boxes.....	165,361	4,023	-392	168,992
2445	Cooperage.....	21,656	158	-4,930	16,884
249	Miscellaneous wood products.....	278,031	3,149	-1,143	280,037
2491	Wood preserving.....	69,257	293	-1,019	68,531
2492	Lasts and related products.....	8,210	50	33	8,293
2493	Mirror and picture frames.....	27,601	471	-162	27,910
2499	Wood products, nec.....	172,961	2,335	5	175,301
25	Furniture and fixtures.....	1,966,410	27,089	4,007	1,997,506
251	Household furniture.....	1,320,743	14,091	1,124	1,335,958
2511	Wood house furniture not upholstered....	592,714	8,881	496	602,091
2512	Upholstered household furniture.....	313,034	1,551	252	314,837
2514	Metal household furniture.....	190,816	1,374	788	192,978
2515	Mattresses and bedsprings.....	216,362	2,245	-452	218,155
2519	Household furniture, nec.....	7,815	40	40	7,895
252	Office furniture.....	154,566	2,672	-39	157,199
2521	Wood office furniture.....	28,757	191	111	29,059
2522	Metal office furniture.....	125,808	2,481	-150	128,139
253	Public and professional furniture.....	125,674	1,561	1,343	128,578
2531	Public-building furniture.....	87,446	968	1,754	90,168
2532	Professional furniture.....	38,228	593	-411	38,410
2541	Partitions and fixtures.....	230,712	3,600	1,934	236,246
256	Screens, shades, and blinds.....	109,931	4,473	-786	113,618
2561	Window and door screens.....	32,630	436	-367	32,699
2562	Window shades.....	29,604	2,045	-273	31,376
2563	Venetian blinds.....	47,696	1,992	-146	49,542
259	Furniture and fixtures, nec.....	24,782	692	431	25,905
2591	Restaurant furniture.....	18,790	674	365	19,829
2599	Furniture and fixtures, nec.....	5,992	18	66	6,076

See footnotes at end of table.



Table 2B.--UNADJUSTED AND ADJUSTED VALUE ADDED FOR INDUSTRIES AND INDUSTRY GROUPS: 1954--Continued  
(In thousands of dollars. For explanation of column captions see Introduction)

Code	Industry and industry group	Value added by manufacture, unadjusted <sup>1</sup>	Value added by merchandising (resales)	Net change in finished products and work-in- process inventories between the beginning and end of 1954 <sup>2</sup>	Adjusted value added <sup>1</sup>
26	Pulp, paper and products.....	4,580,944	24,847	24,362	4,630,153
261	Pulp, paper and board.....	2,289,349	3,767	11,669	2,304,785
2611	Pulp mills.....	704,274	118	2,674	707,066
2612	Paper and paperboard mills.....	1,429,659	567	8,893	1,439,119
2613	Building paper and board mills.....	155,415	3,082	102	158,599
2641	Paper coating and glazing.....	282,067	1,588	1,314	284,969
2651	Envelopes.....	101,430	841	527	102,798
2661	Paper bags.....	211,688	2,118	2,284	216,090
267	Paperboard containers.....	969,675	4,477	2,608	976,760
2671	Paperboard boxes.....	895,298	4,312	2,751	902,361
2674	Fiber cans, tubes, drums, etc.....	74,377	165	-143	74,399
269	Pulp, paper and board products, nec.....	726,732	12,056	5,960	744,748
2691	Die-cut paper and board.....	97,964	1,498	252	99,714
2693	Wallpaper.....	19,005	56	340	19,401
2694	Pulp goods, pressed and molded.....	25,439	20	553	26,012
2699	Paper and board products, nec.....	584,323	10,482	4,815	599,620
27	Printing and publishing.....	6,264,558	147,592		36,412,150
2711	Newspapers.....	2,144,223	2,422		2,146,645
2721	Periodicals.....	795,543	10,173		805,716
273	Books.....	539,395	12,797		552,191
2731	Books; publishing and printing.....	394,702	12,502		407,204
2732	Book printing.....	144,692	295		144,987
2741	Miscellaneous publishing.....	149,310	1,195		150,505
2751	Commercial printing.....	1,357,820	103,953		1,461,773
2761	Lithographing.....	578,883	9,645	( <sup>3</sup> )	588,528
2771	Greeting cards.....	131,343	3,272		134,615
278	Bookbinding and related industries.....	199,271	2,670		201,940
2781	Bookbinding.....	84,741	1,319		86,060
2782	Blankbooks and paper ruling.....	47,910	871		48,781
2783	Loose-leaf binders and devices.....	49,651	463		50,114
2789	Miscellaneous bookbinding work.....	16,968	17		16,985
279	Printing trade services industries.....	368,766	1,465		370,229
2791	Typesetting.....	106,909	421		107,330
2792	Engraving and plate printing.....	43,385	278		43,663
2793	Photoengraving.....	148,876	406		149,282
2794	Electrotyping and stereotyping.....	69,594	360		69,954
28	Chemicals and products.....	9,443,629	178,661	-11,110	9,611,180
281	Inorganic chemicals.....	1,386,544	11,779	10,338	1,408,661
2811	Sulfuric acid.....	66,175	1,554	433	68,162
2812	Alkalies and chlorine.....	251,033	3,171	2,078	256,282
2819	Inorganic chemicals, nec.....	1,069,335	7,054	7,825	1,084,214
282	Organic chemicals.....	3,214,454	14,860	-18,558	3,210,756
2821	Cyclic (coal tar) crudes.....	22,179	494	-467	22,206
2822	Intermediates and organic colors.....	362,305	4,402	-3,834	362,873
2823	Plastics materials.....	583,224	2,916	-295	585,845
2824	Synthetic rubber.....	152,906	67	-10,455	142,518
2825	Synthetic fiber.....	717,226	6	-18,552	698,680
2826	Explosives.....	205,442	866	14,962	221,270
2829	Organic chemicals, nec.....	1,171,165	6,109	83	1,177,357
283	Drugs and medicines.....	1,336,562	27,706	660	1,364,928
2831	Biological products.....	36,680	1,296	1,408	39,384
2833	Medicinal chemicals (inc. botanicals)...	138,877	4,008	412	143,297
2834	Pharmaceutical preparations.....	1,161,004	22,402	-1,160	1,182,246
284	Soap and related products.....	827,668	28,938	-4,357	852,249
2841	Soap and glycerin.....	510,756	14,887	-4,230	521,413
2842	Cleaning and polishing preparations.....	288,590	13,039	-1,413	300,216
2843	Sulfonated oils and assistants.....	28,322	1,012	1,287	30,621
285	Paints and allied products.....	849,895	19,228	-1,850	867,273
2851	Paints and varnishes.....	642,656	15,857	3,292	661,805
2852	Inorganic color pigments.....	196,901	2,828	-5,207	194,522
2853	Whiting and fillers.....	10,337	543	66	10,946
286	Gum and wood chemicals.....	62,053	484	-670	61,867
2861	Hardwood distillation.....	7,419	7	404	7,830
2862	Softwood distillation.....	47,374	133	-1,342	46,165
2863	Gum naval stores.....	2,473	222	593	3,288
2865	Tanning and dyeing materials.....	4,785	122	-326	4,581

See footnotes a, end of table.

## GENERAL SUMMARY

Table 2B.—UNADJUSTED AND ADJUSTED VALUE ADDED FOR INDUSTRIES AND INDUSTRY GROUPS: 1954—Continued

(In thousands of dollars. For explanation of column captions see Introduction.)

Code	Industry and industry group	Value added by manufacture, unadjusted <sup>1</sup>	Value added by merchandising (resales)	Net change in finished products and work-in- process inventories between the beginning and end of 1954 <sup>2</sup>	Adjusted value added <sup>1</sup>
	Chemicals and allied products—Con.				
287	Fertilizers.....	252,422	17,756	1,872	272,050
2871	Fertilizers.....	171,297	6,334	1,788	179,419
2872	Fertilizers, mixing only.....	81,125	11,422	84	92,631
288	Vegetable and animal oils.....	385,475	7,786	4,753	398,014
2881	Cottonseed oil mills.....	101,164	3,407	7,163	111,734
2882	Linseed oil mills.....	16,679	17	-1,908	14,788
2883	Soybean oil mills.....	106,938	2,754	-2,474	107,218
2884	Vegetable oil mills, nec.....	21,240	708	-82	21,866
2886	Grease and tallow.....	95,451	121	1,053	96,625
2887	Fatty acids.....	21,922	749	1,296	23,967
2889	Animal oils, nec.....	22,079	30	-296	21,813
289	Chemical products, nec.....	1,128,552	50,124	-3,298	1,175,378
2891	Printing ink.....	87,289	714	340	88,343
2892	Essential oils.....	5,484	195	21	5,700
2893	Toilet preparations.....	419,666	15,567	-2,758	432,475
2894	Glue and gelatin.....	64,771	2,065	963	67,799
2895	Carbon black.....	62,424	17	-2,124	60,317
2896	Compressed and liquefied gases.....	111,254	10,863	-277	121,840
2897	Insecticides and fungicides.....	62,099	9,742	-558	71,283
2898	Salt.....	48,936	108	205	49,249
2899	Chemical products, nec.....	266,627	10,853	890	278,370
29	Petroleum and coal products.....	2,582,613	37,876	1,510	2,621,999
2911	Petroleum refining.....	1,901,333	22,196	-5,509	1,918,020
293	Coke and byproducts.....	373,874	45	7,204	381,123
2931	Beehive coke ovens.....	2,494	2	2	2,498
2932	Byproduct coke ovens.....	371,380	43	7,202	378,625
295	Paving and roofing materials.....	199,584	7,057	1,112	207,753
2951	Paving mixtures and blocks.....	50,260	1,582	303	52,145
2952	Roofing felts and coatings.....	149,323	5,475	809	155,607
299	Petroleum and coal products, nec.....	107,818	8,578	-1,297	115,099
2992	Lubricants, nec.....	85,063	7,408	-1,810	90,661
2999	Petroleum and coal products, nec.....	22,754	1,170	513	24,437
30	Rubber products.....	1,903,702	56,230	-5,531	1,954,401
3011	Tires and inner tubes.....	844,545	37,039	-3,813	877,771
3021	Rubber footwear.....	107,027	792	-1,051	106,768
3031	Reclaimed rubber.....	22,043	1,407	4	23,454
3099	Rubber industries, nec.....	930,086	16,992	-671	946,407
31	Leather and leather goods.....	1,637,417	11,593	-8,206	1,640,804
3111	Leather tanning and finishing.....	264,264	785	-4,821	260,228
3121	Industrial leather belting.....	34,911	1,507	-1,035	35,383
3131	Footwear cut stock.....	87,185	1,720	-1,835	87,070
314	Footwear, except rubber.....	985,754	3,523	-898	988,379
3141	Footwear, except rubber.....	940,704	3,454	-1,197	942,961
3142	House slippers.....	45,050	69	299	45,418
315	Leather gloves.....	23,185	601	-1,068	22,718
3151	Leather dress gloves.....	13,559	409	-922	13,046
3152	Leather work gloves.....	9,626	192	146	9,672
3161	Luggage.....	89,385	766	1,162	91,313
317	Purses and small leather goods.....	125,517	952	31	126,500
3171	Handbags and purses.....	92,968	808	89	93,865
3172	Small leather goods.....	32,549	144	58	32,635
319	Miscellaneous leather goods.....	27,211	1,739	258	29,208
3192	Saddlery, harness, and whips.....	5,116	402	-42	5,476
3199	Leather goods, nec.....	22,095	1,337	300	23,732
32	Stone, clay, and glass products.....	3,821,659	50,436	-5,866	3,866,229
3211	Flat glass.....	252,313	799	-5,937	247,175
322	Pressed and blown glassware.....	674,382	2,760	1,697	678,839
3221	Glass containers.....	377,161	1,719	5,767	384,647
3229	Pressed and blown glass, nec.....	297,221	1,041	-4,070	294,192
3231	Products of purchased glass.....	192,644	3,614	-2,976	193,282
3241	Cement, hydraulic.....	528,920	613	-3,866	525,667

See footnotes at end of table.



Table 2B.—UNADJUSTED AND ADJUSTED VALUE ADDED FOR INDUSTRIES AND INDUSTRY GROUPS: 1954—Continued  
(In thousands of dollars. For explanation of column captions see Introduction)

Code	Industry and industry group	Value added by manufacture, unadjusted <sup>1</sup>	Value added by merchandising (resales)	Net change in finished products and work-in- process inventories between the beginning and end of 1954 <sup>2</sup>	Adjusted value added <sup>1</sup>
	Stone, clay, and glass products—Con.				
325	Structural clay products.....	425,356	3,236	-943	427,649
3251	Brick and hollow tile.....	183,312	1,873	-1,168	184,017
3253	Floor and wall tile.....	70,606	360	534	71,500
3254	Sewer pipe.....	55,293	280	279	55,852
3255	Clay refractories.....	88,753	581	-851	88,483
3259	Structural clay products, nec.....	27,391	142	263	27,796
326	Pottery and related products.....	260,062	2,645	-4,724	257,983
3261	Vitreous plumbing fixtures.....	76,740	1,246	-2,447	75,539
3262	Vitreous-china food utensils.....	36,184	204	25	36,413
3263	Earthenware food utensils.....	49,751	57	-1,153	48,655
3264	Porcelain electrical supplies.....	54,675	696	-1,059	54,312
3265	China decorating for the trade.....	2,148	19	15	2,182
3269	Pottery products, nec.....	40,562	423	-105	40,880
327	Concrete and plaster products.....	705,513	22,062	6,055	733,630
3271	Concrete products.....	396,344	17,243	5,105	418,692
3272	Gypsum products.....	161,898	3,339	34	165,271
3274	Lime.....	57,383	503	99	57,985
3275	Mineral wool.....	89,887	977	817	91,681
3281	Cut-stone and stone products.....	119,765	1,584	115	121,464
329	Nonmetallic mineral products, nec.....	662,699	13,123	4,713	680,535
3291	Abrasive products.....	191,850	3,685	3,448	198,983
3292	Asbestos products.....	179,864	4,473	2,590	186,927
3293	Gaskets and asbestos insulations.....	84,485	2,972	-204	87,253
3295	Minerals: ground or treated.....	89,725	811	216	90,752
3297	Nonclay refractories.....	78,101	387	-1,045	77,443
3298	Statuary and art goods.....	8,332	585	-3	8,914
3299	Nonmetallic mineral products, nec.....	30,340	210	-289	30,261
33	Primary metal industries.....	9,372,910	29,149	-11,624	9,390,435
331	Blast furnaces and steel mills.....	4,755,233	6,180	31,658	4,793,071
3312	Steel works and rolling mills.....	4,640,515	6,104	27,667	4,674,286
3313	Electrometallurgical products.....	114,718	76	3,991	118,785
332	Iron and steel foundries.....	1,339,270	3,552	-15,418	1,327,404
3321	Gray-iron foundries.....	846,271	2,774	-1,609	847,436
3322	Malleable-iron foundries.....	135,175	81	-1,994	133,262
3323	Steel foundries.....	357,824	697	-11,815	346,706
333	Primary nonferrous metals.....	614,159	174	-31,165	583,168
3331	Primary copper.....	156,981	9	-6,185	150,805
3332	Primary lead.....	30,772	...	-8,032	22,740
3333	Primary zinc.....	87,501	71	-12,011	75,561
3334	Primary aluminum.....	264,201	30	-5,287	258,944
3339	Primary nonferrous metals, nec.....	74,703	64	350	75,117
3341	Secondary nonferrous metals.....	142,329	7,874	2,210	152,413
335	Nonferrous rolling and drawing.....	860,228	3,230	16,935	880,393
3351	Copper rolling and drawing.....	420,604	1,465	422,916	
3352	Aluminum rolling and drawing.....	339,717	135	12,497	352,349
3359	Nonferrous rolling and drawing, nec.....	99,907	1,630	3,591	105,128
3361	Nonferrous foundries.....	476,969	1,967	-6,505	472,431
339	Primary metal industries, nec.....	1,184,721	6,172	-9,339	1,181,554
3391	Iron and steel forgings.....	304,258	1,356	-11,502	294,112
3392	Wire drawing.....	465,654	2,155	1,177	468,986
3393	Welded and heavy-riveted pipe.....	204,325	1,136	2,182	207,643
3399	Primary metal industries, nec.....	210,482	1,525	-1,196	210,811
34	Fabricated metal products.....	7,596,275	136,792	-79,676	7,653,391
3411	Tin cans and other tinware.....	482,297	1,267	16,844	500,408
342	Cutlery, hand tools, and hardware.....	1,044,425	10,909	-14,654	1,040,680
3421	Cutlery.....	122,357	564	-1,972	120,949
3422	Edge tools.....	48,027	793	-248	48,572
3423	Hand tools, nec.....	162,051	4,570	-5,095	161,526
3424	Files.....	19,163	101	308	19,572
3425	Hand-saws and saw blades.....	53,246	1,344	-3,493	51,097
3429	Hardware, nec.....	639,578	3,537	-4,154	638,961
343	Heating and plumbing equipment.....	828,467	14,153	-14,703	827,917
3431	Plumbing fixtures and fittings.....	240,944	4,483	-5,964	239,463
3432	Oil burners.....				
3439	Heating and cooking apparatus, nec.....	587,523	9,670	-8,739	588,454
344	Structural metal products.....	2,203,635	72,570	-41,104	2,235,101
3441	Structural and ornamental products.....	909,782	39,823	-19,103	930,502
3442	Metal doors, sash, and trim.....	334,956	8,168	-279	342,845
3443	Boiler shop products.....	578,568	8,829	-19,251	568,146
3444	Sheet-metal work.....	380,327	15,750	-2,471	393,606

See footnotes at end of table.

## GENERAL SUMMARY

Table 2B.—UNADJUSTED AND ADJUSTED VALUE ADDED FOR INDUSTRIES AND INDUSTRY GROUPS: 1954—Continued

(In thousands of dollars. For explanation of column captions see Introduction)

Code	Industry and industry group	Value added by manufacture, unadjusted <sup>1</sup>	Value added by merchandising (resales)	Net change in finished products and work-in- process inventories between the beginning and end of 1954 <sup>2</sup>	Adjusted value added <sup>1</sup>
	Fabricated metal products—Con.				
346	Metal stamping and coating.....	1,245,074	13,649	-15,863	1,242,860
3461	Vitreous-enameled products.....	36,618	102	-549	36,171
3463	Metal stampings.....	923,939	12,842	-14,885	921,896
3465	Enameling and lacquering.....	29,992	79	-115	29,956
3466	Galvanizing.....	19,945	71	45	20,061
3467	Engraving on metal.....	20,508	94	-157	20,445
3468	Plating and polishing.....	214,070	461	-201	214,330
3471	Lighting fixtures.....	323,711	3,546	-2,606	324,651
348	Fabricated wire products.....	430,815	3,959	-3,073	431,701
3481	Nails and spikes.....	18,447	100	-156	18,391
3489	Wirework, nec.....	412,368	3,859	-2,917	413,310
349	Metal products, nec.....	1,037,849	16,739	-4,517	1,050,071
3491	Metal barrels, drums, and pails.....	85,865	1,385	-1,583	85,667
3492	Safes and vaults.....	28,974	385	224	29,583
3493	Steel springs.....	50,152	1,923	-1,307	50,768
3494	Bolts, nuts, washers, and rivets.....	411,662	8,038	1,812	421,512
3495	Screw machine products.....	246,886	977	-4,298	243,565
3496	Collapsible tubes.....	22,239	121	69	22,429
3497	Metal foil.....	62,604	187	3,066	65,857
3499	Fabricated metal products, nec.....	129,464	3,723	-2,500	130,687
35	Machinery, except electrical.....	12,338,923	218,330	-374,662	12,182,591
351	Engines and turbines.....	690,131	5,914	-45,144	650,901
3511	Steam engines and turbines.....	295,367	275	-15,941	279,701
3519	Internal combustion engines.....	394,763	5,639	-29,203	371,199
352	Tractors and farm machinery.....	1,050,370	22,343	-36,779	1,035,934
3521	Tractors.....	516,484	13,021	-20,138	509,367
3522	Farm machinery (except tractors).....	533,886	9,322	-16,641	526,567
353	Construction and mining machinery.....	901,408	21,193	-16,907	905,694
3531	Construction and mining machinery.....	582,670	14,809	-19,295	578,184
3532	Oilfield machinery and tools.....	318,737	6,384	2,388	327,509
354	Metalworking machinery.....	2,350,111	24,428	-99,608	2,274,931
3541	Machine tools.....	788,219	5,786	-50,436	743,569
3542	Metalworking machinery.....	513,279	14,229	-19,636	507,872
3544	Special dies and tools.....	697,004	2,411	-17,326	682,089
3545	Metalworking machinery attachments.....	351,607	2,002	-12,210	341,399
355	Special-industry machinery, nec.....	1,214,836	32,523	-23,821	1,223,538
3551	Food-products machinery.....	256,240	7,376	-1,837	261,779
3552	Textile machinery.....	217,560	2,421	-3,375	216,606
3553	Woodworking machinery.....	101,721	3,131	-2,327	102,525
3554	Paper-industries machinery.....	112,565	1,908	-4,670	109,803
3555	Printing-trades machinery.....	173,805	6,975	-1,814	178,966
3559	Special-industry machinery, nec.....	352,943	10,712	-9,798	353,857
356	General industrial machinery.....	1,859,054	42,963	-58,175	1,843,842
3561	Pumps and compressors.....	498,011	16,251	-18,794	495,471
3562	Elevators and escalators.....	102,106	784	-3,127	99,763
3563	Conveyors.....	286,919	4,605	-9,742	281,782
3564	Blowers and fans.....	151,272	4,005	-1,911	153,366
3565	Industrial trucks and tractors.....	123,044	4,811	-3,400	124,455
3566	Power-transmission equipment.....	393,984	5,976	-11,706	388,254
3567	Industrial furnaces and ovens.....	81,399	2,171	-2,753	80,817
3568	Mechanical stokers.....	8,976	167	241	9,384
3569	General industrial machinery, nec.....	213,340	4,193	-6,983	210,550
357	Office and store machines.....	773,881	10,730	-7,633	776,978
3571	Computing and related machines.....	412,048	1,642	-8,276	405,414
3572	Typewriters.....	131,306	2,771	2,876	136,953
3576	Scales and balances.....	44,047	249	1,239	45,535
3579	Office and store machines, nec.....	186,479	6,068	-3,472	189,075
358	Service and household machines.....	1,589,044	32,513	-71,049	1,550,508
3581	Domestic laundry equipment.....	207,395	2,068	-18,777	190,686
3582	Laundry and dry-cleaning machinery.....	54,218	3,340	-914	56,644
3583	Sewing machines.....	76,602	2,156	-8,419	70,339
3584	Vacuum cleaners.....	91,850	2,605	-4,578	89,877
3585	Refrigeration machinery.....	1,006,193	16,021	-35,388	986,826
3586	Measuring and dispensing pumps.....	63,160	1,981	-1,122	64,019
3589	Service and household machines, nec.....	89,624	4,342	-1,851	92,115
359	Miscellaneous machinery parts.....	1,910,083	25,723	-15,546	1,920,260
3591	Valves and fittings, except plbg.....	567,518	5,833	579,006	579,006
3592	Fabricated pipe and fittings.....	123,028	4,608	-5,228	122,408
3593	Ball and roller bearings.....	335,101	897	-6,605	329,393
3594	Industrial patterns and molds.....	152,049	645	-555	152,139
3599	Machine shops.....	732,387	13,740	-8,813	737,314

See footnotes at end of table.



Table 23.—UNADJUSTED AND ADJUSTED VALUE ADDED FOR INDUSTRIES AND INDUSTRY GROUPS: 1954—Continued

(In thousands of dollars. For explanation of column captions see Introduction)

Code	Industry and industry group	Value added by manufacture, unadjusted <sup>1</sup>	Value added by merchandising (resales)	Net change in finished products and work-in- process inventories between the beginning and end of 1954 <sup>2</sup>	Adjusted value added <sup>1</sup>
36	Electrical machinery.....	7,403,134	119,768	-223,295	7,299,607
361	Electrical industrial apparatus.....	2,795,415	33,100	-85,895	2,742,620
3611	Wiring devices and supplies.....	340,911	6,135	89	347,135
3612	Carbon and graphite products.....	62,873	132	1,574	64,579
3613	Electrical measuring instruments.....	248,478	5,540	-8,430	245,588
3614	Motors and generators.....	844,128	12,232	-38,759	817,601
3615	Transformers.....	410,245	386	-16,355	394,276
3616	Electrical control apparatus.....	700,477	5,918	-19,087	687,308
3617	Electrical welding apparatus.....	78,645	1,742	-2,893	77,494
3619	Electrical industrial apparatus, nec....	109,656	1,015	-2,034	108,637
3621	Electrical appliances.....	424,031	5,970	-3,754	426,247
3631	Insulated wire and cable.....	110,317	458	-1,586	109,189
3641	Engine electrical equipment.....	339,251	8,511	-11,139	336,623
3651	Electric lamps (bulbs).....	218,137	1,220	-3,127	216,230
366	Communication equipment.....	3,214,097	62,368	-115,515	3,160,950
3661	Radios and related products.....	2,130,207	44,286	-93,611	2,080,882
3662	Electronic tubes.....	461,904	2,313	-13,712	450,505
3663	Phonograph records.....	57,387	1,310	-8	58,689
3664	Telephone and telegraph equipment.....	497,829	11,338	-8,971	500,196
3669	Communication equipment, nec.....	66,769	3,121	787	70,677
369	Electrical products, nec.....	301,883	8,141	-2,279	307,745
3691	Storage batteries.....	127,503	308	1,071	128,882
3692	Primary batteries.....	62,388	334	-4,232	58,490
3693	X-ray and therapeutic apparatus.....	51,518	4,788	1,359	57,665
3699	Electrical products, nec.....	60,472	2,711	-477	62,706
37	Transportation equipment.....	13,925,983	80,281	-230,319	13,775,945
371	Motor vehicles and equipment.....	6,406,642	33,250	-237,360	6,202,532
3713	Truck and bus bodies.....	112,834	2,957	411	116,202
3715	Truck trailers.....	113,469	2,419	-170	115,718
3716	Automobile trailers.....	68,784	962	-571	69,175
3717	Motor vehicles and parts.....	6,111,554	26,912	-237,030	5,901,436
372	Aircraft and parts.....	6,287,620	41,189	109,157	6,437,966
3721	Aircraft.....	3,348,876	19,871	353,504	3,722,251
3722	Aircraft engines.....	1,435,443	14,575	-147,779	1,302,239
3723	Aircraft propellers.....	108,415	232	-9,192	99,455
3729	Aircraft equipment, nec.....	1,394,886	6,511	-87,376	1,314,021
373	Ships and boats.....	776,415	2,584	-21,824	757,175
3731	Ship building and repairing.....	691,908	888	-21,926	670,870
3732	Boat building and repairing.....	84,507	1,696	102	86,305
374	Railroad equipment.....	403,547	2,531	78,027	328,051
3741	Locomotives and parts.....	188,322	1,440	-25,756	164,006
3742	Railroad and street cars.....	215,224	1,091	-52,271	164,044
3751	Motorcycles and bicycles.....	41,819	675	-2,317	40,177
3799	Transportation equipment, nec.....	9,938	52	52	10,042
38	Instruments and related products.....	2,128,706	50,072	-47,165	2,131,613
3811	Scientific instruments.....	356,713	6,967	-23,534	340,146
3821	Mechanical measuring instruments.....	542,602	5,868	-5,807	542,663
3831	Optical instruments and lenses.....	86,380	592	-3,126	83,846
384	Medical instruments and supplies.....	272,020	18,285	-508	289,797
3841	Surgical and medical instruments.....	41,656	896	89	42,641
3842	Surgical appliances and supplies.....	179,209	15,721	-1,065	193,865
3843	Dental equipment and supplies.....	51,154	1,668	468	53,290
3851	Ophthalmic goods.....	110,452	301	-3,694	107,059
3861	Photographic equipment.....	561,238	15,570	-9,383	567,425
387	Watches and clocks.....	199,300	2,489	-1,113	200,676
3871	Watches and clocks.....	179,069	2,481	318	181,868
3872	Watchcases.....	20,231	8	-1,431	18,808
39	Miscellaneous manufactures <sup>4</sup> .....	4,473,050	63,287	-143,714	4,392,623
391	Jewelry and silverware.....	297,580	6,833	-2,355	302,058
3911	Jewelry (precious metal).....	145,567	4,658	-625	149,600
3912	Jewelers' findings.....	31,369	218	-148	31,439
3913	Lapidary work.....	10,608	520	53	11,181
3914	Silverware and plated ware.....	110,034	1,437	-1,635	109,836

See footnotes at end of table.

## GENERAL SUMMARY

Table 2B.—UNADJUSTED AND ADJUSTED VALUE ADDED FOR INDUSTRIES AND INDUSTRY GROUPS: 1954—Continued

(In thousands of dollars. For explanation of column captions see Introduction)

Code	Industry and industry group	Value added by manufacture, unadjusted <sup>1</sup>	Value added by merchandising (resales)	Net change in finished products and work-in- process inventories between the beginning and end of 1954 <sup>2</sup>	Adjusted value added <sup>1</sup>
	Miscellaneous manufactures <sup>4</sup> —Con.				
393	Musical instruments and parts.....	93,072	810	331	94,213
3931	Pianos.....	32,436	13	-88	32,361
3932	Organs.....	8,664	...	-159	8,505
3933	Piano and organ parts.....	25,239	55	-108	25,186
3939	Musical instruments, nec.....	26,731	742	687	28,160
394	Toys and sporting goods.....	469,413	6,192	-7,247	468,358
3941	Games and toys, nec.....	208,484	1,968	-3,746	206,706
3942	Dolls.....	66,289	431	-369	66,351
3943	Children's vehicles.....	36,499	84	-1,122	35,461
3949	Sporting and athletic goods.....	158,153	3,709	-2,010	159,852
395	Office supplies.....	195,080	5,407	421	200,908
3951	Pens and mechanical pencils.....	83,793	326	1	84,120
3952	Lead pencils and crayons.....	29,224	652	686	30,562
3953	Hand stamps and stencils.....	32,466	2,563	-268	34,761
3954	Artists' materials.....	11,836	96	-219	11,713
3955	Carbon paper and inked ribbons.....	37,758	1,770	221	39,749
396	Costume jewelry and notions.....	316,497	5,558	-3,743	318,312
3961	Costume jewelry.....	129,239	2,694	-144	131,789
3962	Artificial flowers.....	28,952	722	250	29,924
3963	Buttons.....	36,679	1,359	181	38,219
3964	Needles, pins, and fasteners.....	121,625	783	-4,030	118,378
3971	Plastics products, nec.....	589,254	5,407	3,727	598,388
398	Miscellaneous manufactures <sup>4</sup> .....	2,512,162	33,080	-134,848	2,410,394
3981	Brooms and brushes.....	91,737	11,410	-199	102,948
3982	Cork products.....	19,843	7	-227	19,623
3983	Matches.....	35,391	30	140	35,561
3984	Candles.....	16,486	373	153	17,012
3985	Fireworks and pyrotechnics.....	11,931	103	-493	11,541
3986	Jewelry and instrument cases.....	37,559	393	-705	37,247
3987	Lamp shades.....	21,492	157	-6	21,643
3988	Morticians' goods.....	92,024	3,037	308	95,369
3991	Beauty and barber-shop equipment.....	11,963	85	34	12,082
3992	Furs, dressed and dyed.....	23,901	27	77	24,005
3993	Signs and advertising displays.....	216,666	2,519	757	219,942
3994	Hairwork.....	7,296	239	-152	7,383
3995	Umbrellas, parasols, and canes.....	14,917	131	-459	14,589
3996	Tobacco pipes.....	7,260	388	-205	7,443
3997	Soda-fountain and bar equipment.....	10,808	534	-300	11,042
3999	Miscellaneous products, nec.....	123,805	4,600	-2,106	126,299
19--	Ordnance and accessories.....	1,769,065	9,047	-131,465	1,646,647

<sup>1</sup>Unadjusted value added by manufacture represents value of products shipped (excluding resales) during the year less the cost of materials, supplies, fuel, electric energy, and contract work. Adjusted value added by manufacture represents value of products shipped (including resales of finished products produced by other manufacturing establishments) less cost of products, materials, supplies, fuel, electric energy and contract work plus the net change in finished products and work-in-process inventories between the beginning and end of the year. All other 1954 census tables show only the unadjusted value added by manufacture figures (see Introduction—Value Added by Manufacture).

<sup>2</sup>In 1954, establishments that reported on the short form (generally those with less than six employees) were asked to show only their total beginning and end of year inventories. The 1954 totals were prorated on the basis 1954 industry averages of the establishments that reported detailed inventory by type to obtain inventory figures representing all establishments for 1954.

<sup>3</sup>The adjusted value added figures for industries classified in Major Group 27, Printing and Publishing Industries do not reflect the change in inventories between the beginning and end of the year since inventory statistics were not collected from establishments classified in that industry group.

<sup>4</sup>Includes privately owned and/or operated establishments classified in Industry Group 19, "Ordnance and Accessories." Government owned and operated establishments are excluded from the annual survey and the census data.



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Table 3.—DETAILED STATISTICS FOR ALL OPERATING MANUFACTURING ESTABLISHMENTS IN THE UNITED STATES: 1954 AND 1947

(For explanation of line captions see INTRODUCTION)

Item	1954 <sup>1</sup>	1947 <sup>1</sup>	Item	1954 <sup>1</sup>	1947 <sup>1</sup>
Number of establishments, total.....	286,817	240,807	Cost and quantity of purchased fuel and electricity—Continued		
With 1-19 employees.....	196,344	157,608	Electric energy:		
With 20-99 employees.....	63,889	58,669	Purchased:		
With 100 employees and over.....	26,584	24,530	Quantity.....million kwh..	187,027	102,822
All employees:			Cost.....\$1,000..	1,725,350	954,717
Number.....	15,651,294	14,293,963	Generated.....million kwh..	69,683	43,936
Payroll.....\$1,000..	62,993,321	39,695,558	Sold:		
Production workers:			Quantity.....do....	9,044	5,811
Number.....	12,373,030	11,917,884	Value.....\$1,000..	85,830	40,815
Man-hours.....1,000..	24,341,239	24,316,465	Manufacturers' inventories:		
Wages.....\$1,000..	44,595,457	30,243,971	Beginning of year, total.....do....	42,846,663	22,432,422
Value added by manufacture.....do....	116,912,526	74,290,475	Finished products.....do....	13,794,458	6,159,703
Value added by resales.....do....	1,760,131	(NA)	Work-in-process.....do....	12,849,424	16,272,719
Number of employees for selected months:			Materials, supplies, fuel, etc.....do....	16,202,506	26,129,137
March.....	15,761,223	(NA)	End of year, total.....do....	40,340,893	7,808,637
May.....	15,482,096	(NA)	Finished products.....do....	13,540,617	11,881,153
August.....	15,633,204	(NA)	Work-in-process.....do....	11,881,153	18,320,500
November.....	15,755,468	(NA)	Materials, supplies, fuel, etc.....do....	14,918,817	
Cost and quantity of purchased fuel and electricity:			Expenditures for plant and equipment, total.....do....	8,197,261	6,627,029
Fuels consumed, total.....\$1,000..	2,321,757	2,376,801	Capital expenditures, new.....do....	7,818,155	6,003,873
Bituminous coal and anthracite:			New structures and additions to plant.....do....	2,250,222	2,122,143
Quantity.....1,000 short tons..	91,457	110,869	New machinery and equipment.....do....	5,567,933	3,881,730
Value.....\$1,000..	676,804	692,827	Expenditures for used plant and equipment.....do....	379,106	623,156
Coke:			Horsepower rating of power equipment at end of 1954:		
Quantity.....1,000 short tons..	54,371	66,171	Horsepower of prime movers and electric motors driven by purchased energy.....1,000 hp..	108,362	(NA)
Value.....\$1,000..	867,865	729,403	Engines, etc., driving electric generators.....do....	20,906	(NA)
Fuel oil:			Engines, etc., not driving electric generators.....do....	14,673	(NA)
Quantity.....1,000 barrels..	185,541	166,947	Electric motors driven by purchased energy.....do....	72,783	(NA)
Value.....\$1,000..	576,220	474,945	Electric motors driven by energy generated at the establishment.....do....	19,038	(NA)
Gas:					
Quantity.....million cubic feet..	5,914,855	4,004,953			
Value.....\$1,000..	859,646	383,169			
Other fuels:					
Value.....do....	200,553	96,457			

NA Not available.

<sup>1</sup>In 1954, establishments that reported on the short form (generally those with less than six employees) were asked to show only their total expenditures for new plant and equipment, total beginning and end of year inventories and total cost of materials, supplies, fuel and electric energy. Their 1954 totals were prorated on the basis of 1954 industry averages of the establishments that reported detailed inventory expenditure, fuel, and electric energy data by type to obtain figures representing all establishments for 1954. In 1947, very small establishments that accounted for approximately 1.4% of the total manufacturing employment did not report inventory expenditure and detailed fuel and electric energy data and are not represented in the 1947 figures. See 1947 Census of Manufactures, Volume I, for a measure of undercoverage by industry.

<sup>2</sup>Detail fuel items will not add to total fuel, because only the total fuels figures were collected for major industries 23 and 27.

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Table 4A.—MANUFACTURING EMPLOYMENT FOR DIVISIONS, STATES AND STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Division, State, standard metropolitan area, and year <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
United States:						
1954.....	16,125,550	65,976,667	15,651,294	62,993,321	474,256	2,983,346
1953 <sup>2</sup> .....	17,093,004	68,590,424	16,693,076	66,492,872	399,928	2,097,552
1952 <sup>2</sup> .....	16,061,041	61,140,549	15,732,722	59,598,225	328,319	1,542,324
1951 <sup>2</sup> .....	15,637,957	56,283,787	15,309,638	54,741,463	<sup>3</sup> 328,319	<sup>3</sup> 1,542,324
1950 <sup>2</sup> .....	14,769,931	47,892,894	14,467,149	46,642,786	302,782	1,250,108
1949 <sup>2</sup> .....	13,880,050	42,752,032	13,566,949	41,482,008	313,101	1,270,024
New England:						
1954.....	1,450,025	5,460,694	1,431,300	5,356,133	18,725	104,561
1953 <sup>2</sup> .....	1,588,828	5,958,283	1,571,308	5,873,319	17,520	84,964
1952 <sup>2</sup> .....	1,503,282	5,404,018	1,482,089	5,318,226	<sup>3</sup> 21,193	<sup>3</sup> 85,792
1951 <sup>2</sup> .....	1,496,584	5,126,358	1,475,391	5,040,566	21,193	85,792
1950 <sup>2</sup> .....	1,433,359	4,397,007	1,418,010	4,337,683	15,349	59,324
1949 <sup>2</sup> .....	1,345,130	3,916,903	1,323,249	3,839,403	21,881	77,500
Maine:						
1954.....	104,507	325,048	104,025	322,158	482	2,890
1953 <sup>2</sup> .....	110,187	354,377	109,351	350,777	836	3,600
1952 <sup>2</sup> .....	108,321	323,033	107,590	320,517	<sup>3</sup> 731	<sup>3</sup> 2,516
1951 <sup>2</sup> .....	107,402	307,960	106,671	305,444	731	2,516
1950 <sup>2</sup> .....	108,309	281,757	108,050	280,357	259	1,400
1949 <sup>2</sup> .....	102,134	258,557	101,458	256,185	676	2,372
New Hampshire:						
1954.....	77,332	246,719	77,071	245,346	261	1,373
1953 <sup>2</sup> .....	88,771	272,833	87,866	270,025	905	2,808
1952 <sup>2</sup> .....	84,677	257,287	83,856	254,307	<sup>3</sup> 821	<sup>3</sup> 2,980
1951 <sup>2</sup> .....	85,851	246,864	85,030	243,884	821	2,980
1950 <sup>2</sup> .....	80,832	213,519	80,462	212,507	370	1,012
1949 <sup>2</sup> .....	77,924	193,581	76,975	191,437	949	2,144
Vermont:						
1954.....	36,112	123,577	35,899	122,829	213	748
1953 <sup>2</sup> .....	38,811	143,327	38,811	143,327	( <sup>4</sup> )	( <sup>4</sup> )
1952 <sup>2</sup> .....	42,180	150,042	42,180	150,042	( <sup>4</sup> )	( <sup>4</sup> )
1951 <sup>2</sup> .....	42,334	141,867	42,334	141,867	( <sup>4</sup> )	( <sup>4</sup> )
1950 <sup>2</sup> .....	40,636	115,829	40,636	115,829	( <sup>4</sup> )	( <sup>4</sup> )
1949 <sup>2</sup> .....	34,063	87,342	33,478	85,618	585	1,724
Massachusetts:						
1954.....	686,997	2,582,486	677,140	2,528,296	9,857	54,190
1953 <sup>2</sup> .....	741,457	2,743,880	733,868	2,706,164	7,589	37,716
1952 <sup>2</sup> .....	705,054	2,525,229	693,806	2,480,205	<sup>3</sup> 11,248	<sup>3</sup> 45,024
1951 <sup>2</sup> .....	713,931	2,449,429	702,683	2,404,405	11,248	45,024
1950 <sup>2</sup> .....	696,777	2,157,181	688,603	2,126,009	8,174	31,172
1949 <sup>2</sup> .....	659,807	1,942,312	649,700	1,907,132	10,107	35,180
Rhode Island:						
1954.....	125,041	431,889	123,970	425,365	1,071	6,524
1953 <sup>2</sup> .....	152,019	529,587	151,007	524,351	1,012	5,236
1952 <sup>2</sup> .....	131,698	446,880	130,485	442,472	<sup>3</sup> 1,213	<sup>3</sup> 4,408
1951 <sup>2</sup> .....	134,062	424,480	132,849	420,072	1,213	4,408
1950 <sup>2</sup> .....	135,473	390,904	134,043	386,468	1,430	4,436
1949 <sup>2</sup> .....	125,763	352,661	124,495	348,105	1,268	4,556
Connecticut:						
1954.....	420,034	1,750,972	413,193	1,712,136	6,841	38,836
1953 <sup>2</sup> .....	457,583	1,914,279	450,405	1,878,675	7,178	35,604
1952 <sup>2</sup> .....	431,352	1,701,547	424,172	1,670,683	<sup>3</sup> 7,180	<sup>3</sup> 30,864
1951 <sup>2</sup> .....	413,004	1,555,758	405,824	1,524,894	7,180	30,864
1950 <sup>2</sup> .....	371,332	1,237,817	366,216	1,216,513	5,116	21,304
1949 <sup>2</sup> .....	345,439	1,082,450	337,143	1,050,926	8,296	31,524
Middle Atlantic:						
1954.....	4,291,292	17,873,037	4,105,248	16,656,158	186,044	1,216,879
1953 <sup>2</sup> .....	4,498,034	18,291,234	4,362,051	17,572,382	135,983	718,852
1952 <sup>2</sup> .....	4,277,177	16,524,299	4,167,399	15,992,791	<sup>3</sup> 109,778	<sup>3</sup> 531,508
1951 <sup>2</sup> .....	4,174,147	15,366,321	4,064,369	14,834,813	109,778	531,508
1950 <sup>2</sup> .....	4,006,194	13,244,655	3,905,535	12,816,031	100,659	428,624
1949 <sup>2</sup> .....	3,850,592	12,205,084	3,737,368	11,728,888	113,224	476,196
New York:						
1954.....	2,008,072	8,472,625	1,895,982	7,734,388	112,090	738,237
1953 <sup>2</sup> .....	2,053,428	8,419,085	1,977,426	7,996,237	76,002	422,848
1952 <sup>2</sup> .....	1,950,032	7,623,909	1,889,036	7,321,717	<sup>3</sup> 60,996	<sup>3</sup> 302,192
1951 <sup>2</sup> .....	1,877,226	7,013,445	1,816,230	6,711,253	60,996	302,192
1950 <sup>2</sup> .....	1,829,479	6,170,564	1,762,624	5,878,192	66,855	292,372
1949 <sup>2</sup> .....	1,768,626	5,750,091	1,704,398	5,474,015	64,228	276,076
New Jersey:						
1954.....	810,525	3,489,145	787,593	3,352,425	22,932	136,720
1953 <sup>2</sup> .....	853,101	3,583,419	835,544	3,497,451	17,557	85,968
1952 <sup>2</sup> .....	792,016	3,231,418	778,328	3,171,990	<sup>3</sup> 13,688	<sup>3</sup> 59,428
1951 <sup>2</sup> .....	776,563	2,960,607	762,875	2,901,179	13,688	59,428
1950 <sup>2</sup> .....	730,650	2,531,320	721,493	2,498,816	9,157	32,504
1949 <sup>2</sup> .....	698,704	2,292,008	684,903	2,237,620	13,801	54,388

See footnotes at end of table.



## GENERAL SUMMARY

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Table 4A.—MANUFACTURING EMPLOYMENT FOR DIVISIONS, STATES AND STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS—Continued

(For explanation of column captions see Introduction)

Division, State, standard metropolitan area, and year <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
Middle Atlantic—Continued						
Pennsylvania:						
1954.....	1,472,695	5,911,267	1,421,673	5,569,345	51,022	341,922
1953 <sup>2</sup> .....	1,591,505	6,288,730	1,549,081	6,078,694	42,424	210,036
1952 <sup>2</sup> .....	1,535,129	5,668,972	1,500,035	5,499,084	<sup>3</sup> 35,094	<sup>3</sup> 169,888
1951 <sup>2</sup> .....	1,520,358	5,392,269	1,485,264	5,222,381	35,094	169,888
1950 <sup>2</sup> .....	1,446,065	4,542,771	1,421,418	4,439,023	24,647	103,748
1949 <sup>2</sup> .....	1,383,262	4,162,985	1,348,067	4,017,253	35,195	145,732
East North Central:						
1954.....	4,604,516	20,925,690	4,459,829	20,003,625	144,687	922,065
1953 <sup>2</sup> .....	5,134,894	22,848,598	5,000,314	22,124,246	134,580	724,352
1952 <sup>2</sup> .....	4,732,252	20,073,035	4,628,971	19,568,947	<sup>3</sup> 103,281	<sup>3</sup> 504,088
1951 <sup>2</sup> .....	4,688,445	18,709,529	4,585,164	18,205,441	103,281	504,088
1950 <sup>2</sup> .....	4,427,093	15,991,647	4,328,066	15,559,155	99,027	432,492
1949 <sup>2</sup> .....	4,106,312	13,953,890	4,008,911	13,542,806	97,401	411,084
Ohio:						
1954.....	1,296,319	5,841,664	1,267,542	5,655,721	28,777	185,943
1953 <sup>2</sup> .....	1,420,095	6,352,819	1,383,971	6,166,115	36,124	186,704
1952 <sup>2</sup> .....	1,336,020	5,668,114	1,311,233	5,548,298	<sup>3</sup> 24,787	<sup>3</sup> 119,816
1951 <sup>2</sup> .....	1,302,678	5,236,937	1,277,891	5,117,121	24,787	119,816
1950 <sup>2</sup> .....	1,192,224	4,253,902	1,170,623	4,162,022	21,601	91,880
1949 <sup>2</sup> .....	1,103,302	3,688,386	1,078,746	3,585,634	24,556	102,752
Indiana:						
1954.....	587,782	2,532,422	582,803	2,504,411	4,979	28,011
1953 <sup>2</sup> .....	686,736	2,903,853	679,399	2,869,657	7,337	34,196
1952 <sup>2</sup> .....	611,687	2,444,256	604,949	2,419,456	<sup>3</sup> 6,738	<sup>3</sup> 24,800
1951 <sup>2</sup> .....	598,303	2,285,724	591,565	2,260,924	6,738	24,800
1950 <sup>2</sup> .....	563,730	1,958,091	558,370	1,938,651	5,360	19,440
1949 <sup>2</sup> .....	512,956	1,680,020	506,350	1,658,144	6,606	21,876
Illinois:						
1954.....	1,224,634	5,430,192	1,177,933	5,137,353	46,701	292,839
1953 <sup>2</sup> .....	1,316,089	5,668,441	1,284,031	5,495,229	32,058	173,212
1952 <sup>2</sup> .....	1,255,635	5,156,159	1,234,323	5,050,519	<sup>3</sup> 21,312	<sup>3</sup> 105,640
1951 <sup>2</sup> .....	1,241,013	4,814,799	1,219,701	4,709,159	21,312	105,640
1950 <sup>2</sup> .....	1,187,296	4,150,983	1,163,316	4,042,835	23,980	108,148
1949 <sup>2</sup> .....	1,132,352	3,820,173	1,103,973	3,697,953	28,379	122,220
Michigan:						
1954.....	1,056,564	5,252,352	1,001,630	4,891,749	54,934	360,603
1953.....	1,231,334	5,919,426	1,179,258	5,623,046	52,076	296,380
1952 <sup>2</sup> .....	1,063,873	4,932,989	1,021,265	4,708,765	<sup>3</sup> 42,608	<sup>3</sup> 224,224
1951 <sup>2</sup> .....	1,084,934	4,604,503	1,042,326	4,380,279	42,608	224,224
1950 <sup>2</sup> .....	1,054,441	4,144,440	1,012,145	3,952,496	42,296	191,944
1949 <sup>2</sup> .....	955,118	3,479,699	922,362	3,333,103	32,756	146,596
Wisconsin:						
1954.....	439,215	1,869,059	429,919	1,814,390	9,296	54,669
1953 <sup>2</sup> .....	480,640	2,004,059	473,655	1,970,199	6,985	33,860
1952 <sup>2</sup> .....	465,037	1,871,517	457,201	1,841,909	<sup>3</sup> 7,836	<sup>3</sup> 29,608
1951 <sup>2</sup> .....	461,517	1,767,566	453,681	1,737,958	7,836	29,608
1950 <sup>2</sup> .....	429,402	1,484,231	423,612	1,463,151	5,790	21,080
1949 <sup>2</sup> .....	402,584	1,285,612	397,480	1,267,972	5,104	17,640
West North Central:						
1954.....	963,778	3,863,288	939,357	3,731,449	24,421	131,839
1953 <sup>2</sup> .....	999,245	3,903,432	978,919	3,808,732	20,326	94,700
1952 <sup>2</sup> .....	962,179	3,557,219	946,917	3,496,043	<sup>3</sup> 15,262	<sup>3</sup> 61,176
1951 <sup>2</sup> .....	896,819	3,093,731	881,557	3,032,555	15,262	61,176
1950 <sup>2</sup> .....	828,111	2,586,487	811,926	2,529,007	16,185	57,480
1949 <sup>2</sup> .....	791,772	2,342,420	778,589	2,297,964	13,183	44,456
Minnesota:						
1954.....	208,506	865,254	203,022	834,888	5,484	30,366
1953 <sup>2</sup> .....	214,494	868,804	207,648	834,484	6,846	34,320
1952 <sup>2</sup> .....	211,899	804,582	208,199	786,442	<sup>3</sup> 3,700	<sup>3</sup> 18,140
1951 <sup>2</sup> .....	200,601	729,351	196,901	711,211	3,700	18,140
1950 <sup>2</sup> .....	186,123	612,726	180,864	593,914	5,259	18,812
1949 <sup>2</sup> .....	179,984	568,293	177,581	558,893	2,403	9,400
Iowa:						
1954.....	163,954	649,147	162,705	643,980	1,249	5,167
1953 <sup>2</sup> .....	166,274	642,766	165,773	640,194	501	2,572
1952 <sup>2</sup> .....	159,732	594,970	158,783	591,782	<sup>3</sup> 949	<sup>3</sup> 3,188
1951 <sup>2</sup> .....	157,438	547,744	156,489	544,556	949	3,188
1950 <sup>2</sup> .....	147,429	451,342	146,929	449,862	500	1,480
1949 <sup>2</sup> .....	140,689	416,922	140,020	414,982	669	1,940
Missouri:						
1954.....	382,430	1,500,348	368,479	1,420,103	13,951	80,245
1953 <sup>2</sup> .....	405,061	1,552,445	392,950	1,499,153	12,111	53,292
1952 <sup>2</sup> .....	378,258	1,360,676	369,108	1,325,108	<sup>3</sup> 9,150	<sup>3</sup> 35,568
1951 <sup>2</sup> .....	358,318	1,177,911	349,168	1,142,343	9,150	35,568
1950 <sup>2</sup> .....	340,239	1,037,085	330,813	1,003,357	9,426	33,728
1949 <sup>2</sup> .....	325,705	941,925	317,662	914,845	8,043	27,080

See footnotes at end of table.

## GENERAL SUMMARY

Table 4A.—MANUFACTURING EMPLOYMENT FOR DIVISIONS, STATES AND STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS—Continued

(For explanation of column captions see Introduction)

Division, State, standard metropolitan area, and year <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
West North Central—Continued						
North Dakota:						
1954.....	5,613	19,228	5,604	19,189	9	39
1953 <sup>2</sup> .....	7,814	24,379	7,796	24,175	18	204
1952 <sup>2</sup> .....	5,896	16,745	5,896	16,745	(4)	(4)
South Dakota:						
1954.....	11,550	41,173	11,531	41,096	19	77
1953 <sup>2</sup> .....	10,441	37,038	10,441	37,038	(4)	(4)
1952 <sup>2</sup> .....	11,554	41,937	11,554	41,937	(4)	(4)
Nebraska:						
1954.....	60,290	227,651	56,996	213,732	3,294	13,919
1953 <sup>2</sup> .....	57,588	210,973	57,424	210,073	164	900
1952 <sup>2</sup> .....	53,063	186,180	53,031	185,996	<sup>3</sup> 32	<sup>3</sup> 184
1951 <sup>2</sup> .....	50,683	166,980	50,651	166,796	32	184
1950 <sup>2</sup> .....	48,025	147,793	47,984	147,617	41	176
1949 <sup>2</sup> .....	45,651	124,186	45,276	123,114	375	1,072
Kansas:						
1954.....	131,432	560,483	131,017	558,457	415	2,026
1953 <sup>2</sup> .....	137,572	567,027	136,886	563,615	686	3,412
1952 <sup>2</sup> .....	141,777	552,129	140,346	548,033	<sup>3</sup> 1,431	<sup>3</sup> 4,096
1951 <sup>2</sup> .....	113,305	421,230	111,874	417,134	1,431	4,096
1950 <sup>2</sup> .....	88,389	285,855	87,622	283,031	767	2,824
1949 <sup>2</sup> .....	83,413	248,042	82,090	243,790	1,323	4,252
South Atlantic:						
1954.....	1,778,959	5,702,560	1,745,372	5,480,901	33,587	221,659
1953 <sup>2</sup> .....	1,816,621	5,670,176	1,783,099	5,493,716	33,522	176,460
1952 <sup>2</sup> .....	1,751,671	5,152,447	1,722,184	5,010,227	<sup>3</sup> 29,487	<sup>3</sup> 142,220
1951 <sup>2</sup> .....	1,697,457	4,784,021	1,667,970	4,641,801	29,487	142,220
1950 <sup>2</sup> .....	1,626,884	4,146,930	1,604,261	4,066,254	22,623	80,676
1949 <sup>2</sup> .....	1,521,782	3,680,685	1,502,335	3,611,821	19,447	68,864
Delaware:						
1954.....	54,530	267,354	39,418	151,269	15,112	116,085
1953 <sup>2</sup> .....	58,550	255,801	43,493	164,641	15,057	91,160
1952 <sup>2</sup> .....	58,670	239,593	45,367	164,913	<sup>3</sup> 13,303	<sup>3</sup> 74,680
1951 <sup>2</sup> .....	56,809	217,657	43,506	142,977	13,303	74,680
Maryland:						
1954.....	255,452	1,002,067	253,144	987,559	2,308	14,508
1953 <sup>2</sup> .....	261,948	1,014,618	259,303	1,001,510	2,645	13,108
1952 <sup>2</sup> .....	260,678	917,091	258,339	907,367	<sup>3</sup> 2,339	<sup>3</sup> 9,724
1951 <sup>2</sup> .....	250,404	851,382	248,065	841,658	2,339	9,724
1950 <sup>2</sup> .....	222,439	680,318	220,505	672,354	1,934	7,964
1949 <sup>2</sup> .....	210,981	618,006	209,577	612,450	1,404	5,556
District of Columbia:						
1954.....	21,723	97,011	20,399	90,083	1,324	6,928
1953 <sup>2</sup> .....	19,499	90,075	19,228	88,259	271	1,816
1952 <sup>2</sup> .....	18,008	72,049	17,930	71,481	<sup>3</sup> 78	<sup>3</sup> 568
1951 <sup>2</sup> .....	17,253	66,202	17,175	65,634	78	568
1950 <sup>2</sup> .....	17,282	61,981	17,118	60,905	164	1,076
1949 <sup>2</sup> .....	17,026	59,770	16,854	58,618	172	1,152
Virginia:						
1954.....	242,864	777,020	239,733	760,454	3,131	16,566
1953 <sup>2</sup> .....	256,057	791,625	253,796	781,301	2,261	10,324
1952 <sup>2</sup> .....	240,998	711,337	238,446	701,957	<sup>3</sup> 2,552	<sup>3</sup> 9,380
1951 <sup>2</sup> .....	231,750	643,333	229,198	633,953	2,552	9,380
1950 <sup>2</sup> .....	225,133	573,968	222,103	563,404	3,030	10,564
1949 <sup>2</sup> .....	214,037	514,428	212,516	509,168	1,521	5,260
West Virginia:						
1954.....	122,390	494,893	118,568	472,560	3,822	22,333
1953 <sup>2</sup> .....	133,923	522,965	130,032	502,625	3,891	20,340
1952 <sup>2</sup> .....	134,346	478,112	131,014	462,132	<sup>3</sup> 3,332	<sup>3</sup> 15,980
1951 <sup>2</sup> .....	137,941	467,306	134,609	451,326	3,332	15,980
1950 <sup>2</sup> .....	129,242	396,445	124,420	376,849	4,822	19,596
1949 <sup>2</sup> .....	125,133	363,576	120,550	345,308	4,583	18,268
North Carolina:						
1954.....	434,934	1,185,629	430,001	1,157,416	4,933	28,213
1953 <sup>2</sup> .....	446,265	1,201,031	442,719	1,185,639	3,546	15,392
1952 <sup>2</sup> .....	418,588	1,088,813	414,943	1,071,309	<sup>3</sup> 3,645	<sup>3</sup> 17,504
1951 <sup>2</sup> .....	413,421	1,037,226	409,776	1,019,722	3,645	17,504
1950 <sup>2</sup> .....	408,295	957,214	405,583	947,406	2,712	9,808
1949 <sup>2</sup> .....	368,816	815,128	366,059	806,324	2,757	8,804
South Carolina:						
1954.....	219,826	634,743	219,447	632,709	379	2,034
1953 <sup>2</sup> .....	223,396	612,971	221,860	606,907	1,536	6,064
1952 <sup>2</sup> .....	207,365	561,854	206,182	558,026	<sup>3</sup> 1,183	<sup>3</sup> 3,828
1951 <sup>2</sup> .....	200,864	524,283	199,681	520,455	1,183	3,828
1950 <sup>2</sup> .....	195,954	465,617	194,408	461,773	1,546	3,844
1949 <sup>2</sup> .....	189,207	424,266	187,678	420,682	1,529	3,584

See footnotes at end of table.



## GENERAL SUMMARY

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Table 4A.—MANUFACTURING EMPLOYMENT FOR DIVISIONS, STATES AND STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS—Continued

(For explanation of column captions see Introduction)

Division, State, standard metropolitan area, and year <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
<b>South Atlantic--Continued</b>						
<b>Georgia:</b>						
1954.....	303,278	854,522	301,290	843,557	1,988	10,965
1953 <sup>2</sup> .....	306,367	848,075	303,017	834,347	3,350	13,728
1952 <sup>2</sup> .....	294,506	751,043	292,342	742,243	<sup>3</sup> 2,164	<sup>3</sup> 8,800
1951 <sup>2</sup> .....	284,151	694,781	281,987	685,981	2,164	8,800
1950 <sup>2</sup> .....	292,273	650,897	288,926	640,269	3,347	10,628
1949 <sup>2</sup> .....	270,612	557,949	268,335	550,377	2,277	7,572
<b>Florida:</b>						
1954.....	123,958	389,318	123,368	385,291	590	4,027
1951 <sup>2</sup> .....	104,864	281,851	103,973	280,095	891	1,756
1950 <sup>2</sup> .....	91,397	224,139	90,270	221,859	1,127	2,280
1949 <sup>2</sup> .....	84,227	204,334	83,691	202,366	536	1,968
<b>East South Central:</b>						
1954.....	729,947	2,366,908	714,758	2,288,840	15,189	78,068
1953 <sup>2</sup> .....	747,148	2,372,074	737,892	2,329,018	9,256	43,056
1952 <sup>2</sup> .....	699,863	2,072,078	689,973	2,038,558	<sup>3</sup> 9,890	<sup>3</sup> 33,520
1951 <sup>2</sup> .....	684,156	1,888,841	674,266	1,855,321	9,890	33,520
1950 <sup>2</sup> .....	649,792	1,647,324	640,233	1,617,376	9,559	29,948
1949 <sup>2</sup> .....	603,165	1,435,192	594,336	1,407,008	8,829	28,184
<b>Kentucky:</b>						
1954.....	151,113	553,203	146,434	529,206	4,679	23,997
1953 <sup>2</sup> .....	150,319	532,300	148,977	524,492	1,342	7,808
1952 <sup>2</sup> .....	145,213	475,770	143,599	469,382	<sup>3</sup> 1,614	<sup>3</sup> 6,388
1951 <sup>2</sup> .....	147,323	463,968	145,709	457,580	1,614	6,388
1950 <sup>2</sup> .....	138,444	391,730	136,727	385,478	1,717	6,252
1949 <sup>2</sup> .....	124,936	336,009	123,711	331,713	1,225	4,296
<b>Tennessee:</b>						
1954.....	267,496	882,644	260,599	850,175	6,897	32,469
1953 <sup>2</sup> .....	275,276	903,478	272,617	891,674	2,659	11,804
1952 <sup>2</sup> .....	261,662	799,101	258,279	788,677	<sup>3</sup> 3,383	<sup>3</sup> 10,424
1951 <sup>2</sup> .....	240,987	666,628	237,604	656,204	3,383	10,424
1950 <sup>2</sup> .....	226,372	585,306	222,990	576,346	3,382	8,960
1949 <sup>2</sup> .....	216,700	517,817	213,090	507,329	3,610	10,488
<b>Alabama:</b>						
1954.....	220,077	690,015	217,084	672,109	2,993	17,906
1953 <sup>2</sup> .....	228,179	697,865	223,139	675,265	5,040	22,600
1952 <sup>2</sup> .....	213,010	608,102	209,197	593,046	<sup>3</sup> 3,813	<sup>3</sup> 15,056
1951 <sup>2</sup> .....	215,763	588,017	211,950	572,961	3,813	15,056
1950 <sup>2</sup> .....	211,162	524,322	207,544	511,374	3,618	12,948
1949 <sup>2</sup> .....	193,878	461,598	190,261	449,154	3,617	12,444
<b>Mississippi:</b>						
1954.....	91,261	241,046	90,641	237,350	620	3,696
1953 <sup>2</sup> .....	93,374	238,431	93,159	237,587	215	844
1952 <sup>2</sup> .....	79,978	189,105	78,898	187,453	<sup>3</sup> 1,080	<sup>3</sup> 1,652
1951 <sup>2</sup> .....	80,083	170,228	79,003	168,576	1,080	1,652
1950 <sup>2</sup> .....	73,814	145,966	72,972	144,178	842	1,788
1949 <sup>2</sup> .....	67,651	119,768	67,274	118,812	377	956
<b>West South Central:</b>						
1954.....	734,003	2,793,741	713,365	2,678,359	20,638	115,382
1953 <sup>2</sup> .....	739,798	2,718,968	716,645	2,599,284	23,153	119,684
1952 <sup>2</sup> .....	676,186	2,355,825	662,136	2,291,581	<sup>3</sup> 14,050	<sup>3</sup> 64,244
1951 <sup>2</sup> .....	649,906	2,087,930	635,856	2,023,686	14,050	64,244
1950 <sup>2</sup> .....	603,787	1,741,591	585,924	1,669,811	17,863	71,780
1949 <sup>2</sup> .....	574,663	1,584,593	556,462	1,515,529	18,201	69,064
<b>Arkansas:</b>						
1954.....	79,196	222,293	78,391	218,473	805	3,820
1953 <sup>2</sup> .....	80,525	219,463	79,575	215,643	950	3,820
1952 <sup>2</sup> .....	80,331	208,802	79,702	206,654	<sup>3</sup> 629	<sup>3</sup> 2,148
1951 <sup>2</sup> .....	75,987	181,739	75,358	179,591	629	2,148
1950 <sup>2</sup> .....	72,926	157,190	72,090	154,558	836	2,632
1949 <sup>2</sup> .....	62,846	125,250	62,252	123,306	594	1,944
<b>Louisiana:</b>						
1954.....	146,330	538,969	144,757	531,639	1,573	7,330
1953 <sup>2</sup> .....	152,549	533,448	150,808	526,168	1,741	7,280
1952 <sup>2</sup> .....	135,446	459,114	134,147	454,370	<sup>3</sup> 1,299	<sup>3</sup> 4,744
1951 <sup>2</sup> .....	135,354	415,921	134,055	411,177	1,299	4,744
1950 <sup>2</sup> .....	126,035	358,251	123,952	350,751	2,083	7,500
1949 <sup>2</sup> .....	119,719	316,725	117,246	311,369	2,473	5,356
<b>Oklahoma:</b>						
1954.....	89,257	363,627	79,851	307,902	9,406	55,725
1953 <sup>2</sup> .....	86,256	337,352	77,455	291,280	8,801	46,072
1952 <sup>2</sup> .....	77,222	266,783	72,172	243,191	<sup>3</sup> 5,050	<sup>3</sup> 23,592
1951 <sup>2</sup> .....	69,122	229,371	64,072	205,779	5,050	23,592
1950 <sup>2</sup> .....	63,494	187,657	58,062	163,185	5,432	24,472
1949 <sup>2</sup> .....	63,329	184,525	57,365	158,585	5,964	25,940

See footnotes at end of table.

## GENERAL SUMMARY

Table 4A.—MANUFACTURING EMPLOYMENT FOR DIVISIONS, STATES AND STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS—Continued  
(For explanation of column captions see Introduction)

Division, State, standard metropolitan area, and year <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
West South Central—Continued						
Texas:						
1954.....	419,218	1,668,851	410,364	1,620,344	8,854	48,507
1953 <sup>2</sup> .....	420,468	1,628,705	408,807	1,566,193	11,661	62,512
1952 <sup>2</sup> .....	383,187	1,421,126	376,115	1,387,366	<sup>3</sup> 7,072	<sup>3</sup> 33,760
1951 <sup>2</sup> .....	369,443	1,260,899	362,371	1,227,139	7,072	33,760
1950 <sup>2</sup> .....	341,332	1,038,493	331,820	1,001,317	9,512	37,176
1949 <sup>2</sup> .....	328,769	958,093	319,599	922,269	9,170	35,824
Mountain:						
1954.....	190,674	766,726	187,493	749,586	3,181	17,140
1953 <sup>2</sup> .....	187,072	743,945	183,925	728,013	3,147	15,932
1952 <sup>2</sup> .....	174,914	655,387	172,878	644,895	<sup>3</sup> 2,036	<sup>3</sup> 10,492
1951 <sup>2</sup> .....	166,772	588,370	164,736	577,878	2,036	10,492
1950 <sup>2</sup> .....	157,144	486,235	154,709	475,231	2,435	11,004
1949 <sup>2</sup> .....	144,888	433,435	142,600	422,955	2,288	10,480
Montana:						
1954.....	18,519	72,090	18,373	71,289	146	801
1953 <sup>2</sup> .....	17,768	71,975	17,691	71,599	77	376
1952 <sup>2</sup> .....	17,414	66,902	17,295	66,610	<sup>3</sup> 119	<sup>3</sup> 292
1951 <sup>2</sup> .....	17,221	61,244	17,102	60,952	119	292
1950 <sup>2</sup> .....	17,040	53,938	16,645	51,942	395	1,996
1949 <sup>2</sup> .....	16,567	49,812	16,057	47,316	510	2,496
Idaho:						
1954.....	23,895	90,742	23,722	89,507	173	1,235
1953 <sup>2</sup> .....	23,482	87,781	23,218	86,173	264	1,608
1952 <sup>2</sup> .....	20,016	83,165	19,623	81,149	<sup>3</sup> 393	<sup>3</sup> 2,016
1951 <sup>2</sup> .....	19,706	78,837	19,313	76,821	393	2,016
1950 <sup>2</sup> .....	15,832	56,860	15,815	56,784	17	76
1949 <sup>2</sup> .....	15,379	50,754	15,250	50,082	129	672
Wyoming:						
1954.....	6,261	26,890	6,228	26,774	33	116
1953 <sup>2</sup> .....	7,213	33,601	6,981	32,293	232	1,308
1952 <sup>2</sup> .....	5,469	23,806	5,469	23,806	( <sup>4</sup> )	( <sup>4</sup> )
1951 <sup>2</sup> .....	5,874	21,709	5,874	21,709	( <sup>4</sup> )	( <sup>4</sup> )
1950 <sup>2</sup> .....	7,099	22,834	7,082	22,734	17	100
1949 <sup>2</sup> .....	6,255	20,453	6,233	20,353	22	100
Colorado:						
1954.....	65,002	257,286	63,041	247,110	1,961	10,176
1953 <sup>2</sup> .....	60,220	237,137	58,864	230,377	1,356	6,760
1952 <sup>2</sup> .....	59,390	213,998	58,577	209,178	<sup>3</sup> 813	<sup>3</sup> 4,820
1951 <sup>2</sup> .....	58,157	196,178	57,344	191,358	813	4,820
1950 <sup>2</sup> .....	56,508	166,105	55,657	161,773	851	4,332
1949 <sup>2</sup> .....	50,593	149,903	49,565	145,271	1,028	4,632
New Mexico:						
1954.....	15,061	62,718	14,955	62,213	106	505
1953 <sup>2</sup> .....	12,753	57,539	12,737	57,479	16	60
1952 <sup>2</sup> .....	15,384	60,599	15,364	60,515	<sup>3</sup> 20	<sup>3</sup> 84
1951 <sup>2</sup> .....	14,741	50,507	14,721	50,423	20	84
1950 <sup>2</sup> .....	13,529	39,006	13,514	38,950	15	56
1949 <sup>2</sup> .....	8,809	24,786	8,740	24,454	69	332
Arizona:						
1954.....	26,269	111,072	26,090	109,868	179	1,204
1953 <sup>2</sup> .....	24,066	99,998	23,565	97,778	501	2,220
1952 <sup>2</sup> .....	21,343	80,695	20,968	79,103	<sup>3</sup> 375	<sup>3</sup> 1,592
1951 <sup>2</sup> .....	17,790	62,423	17,415	60,831	375	1,592
1950 <sup>2</sup> .....	14,721	49,749	14,695	49,621	26	128
1949 <sup>2</sup> .....	14,257	43,971	14,252	43,947	5	24
Utah:						
1954.....	29,947	120,623	29,364	117,520	583	3,103
1953 <sup>2</sup> .....	35,045	126,890	34,344	123,290	701	3,600
1952 <sup>2</sup> .....	32,561	112,541	32,245	110,853	<sup>3</sup> 316	<sup>3</sup> 1,688
1951 <sup>2</sup> .....	30,377	106,961	30,061	105,273	316	1,688
1950 <sup>2</sup> .....	29,377	86,235	28,445	82,443	932	3,792
1949 <sup>2</sup> .....	29,788	82,790	29,296	80,670	492	2,120
Nevada:						
1954.....	5,717	25,301	5,717	25,301	( <sup>4</sup> )	( <sup>4</sup> )
1953 <sup>2</sup> .....	6,525	29,024	6,525	29,024	( <sup>4</sup> )	( <sup>4</sup> )
1952 <sup>2</sup> .....	3,337	13,681	3,337	13,681	( <sup>4</sup> )	( <sup>4</sup> )
1951 <sup>2</sup> .....	2,906	10,511	2,906	10,511	( <sup>4</sup> )	( <sup>4</sup> )
1950 <sup>2</sup> .....	3,038	11,508	2,856	10,984	182	524
1949 <sup>2</sup> .....	3,240	10,966	3,207	10,862	33	104
Pacific:						
1954.....	1,382,265	6,223,711	1,354,481	6,047,958	27,784	175,753
1953 <sup>2</sup> .....	1,381,395	6,083,714	1,358,954	5,964,162	22,441	119,552
1952 <sup>2</sup> .....	1,283,517	5,346,241	1,260,175	5,236,957	<sup>3</sup> 23,342	<sup>3</sup> 109,284
1951 <sup>2</sup> .....	1,183,671	4,638,686	1,160,329	4,529,402	23,342	109,284
1950 <sup>2</sup> .....	1,037,169	3,654,507	1,018,087	3,575,727	19,082	78,780
1949 <sup>2</sup> .....	941,767	3,199,830	923,120	3,115,634	18,647	84,196

See footnotes at end of table.



## GENERAL SUMMARY

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Table 4A.—MANUFACTURING EMPLOYMENT FOR DIVISIONS, STATES AND STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS—Continued  
(For explanation of column captions see Introduction)

Division, State, standard metropolitan area, and year <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
Pacific—Continued						
Washington:						
1954.....	194,171	854,686	192,354	842,660	1,817	12,026
1953 <sup>2</sup> .....	190,214	823,147	188,708	814,495	1,506	8,652
1952 <sup>2</sup> .....	201,008	813,115	199,559	806,575	<sup>3</sup> 1,449	<sup>3</sup> 6,540
1951 <sup>2</sup> .....	193,530	760,374	192,081	753,834	1,449	6,540
1950 <sup>2</sup> .....	162,661	566,785	161,047	560,249	1,614	6,536
1949 <sup>2</sup> .....	157,695	519,379	156,399	512,987	1,296	6,392
Oregon:						
1954.....	135,309	566,671	134,343	561,580	966	5,091
1953 <sup>2</sup> .....	132,385	556,923	131,365	550,555	1,020	6,368
1952 <sup>2</sup> .....	137,940	546,482	136,589	539,818	<sup>3</sup> 1,351	<sup>3</sup> 6,664
1951 <sup>2</sup> .....	133,101	502,749	131,750	496,085	1,351	6,664
1950 <sup>2</sup> .....	119,419	409,068	118,722	406,472	697	2,596
1949 <sup>2</sup> .....	111,846	365,108	111,060	362,300	786	2,808
California:						
1954.....	1,052,785	4,802,353	1,027,784	4,643,717	25,001	158,636
1953 <sup>2</sup> .....	1,058,796	4,703,644	1,038,881	4,599,112	19,915	104,532
1952 <sup>2</sup> .....	944,569	3,986,644	924,027	3,890,564	<sup>2</sup> 20,542	<sup>3</sup> 96,080
1951 <sup>2</sup> .....	857,040	3,375,563	836,498	3,279,483	20,542	96,080
1950 <sup>2</sup> .....	755,089	2,678,654	738,318	2,609,006	16,771	69,648
1949 <sup>2</sup> .....	672,226	2,315,343	655,661	2,240,347	16,565	74,996
STANDARD METROPOLITAN AREAS—1954 <sup>5</sup>						
Akron.....	90,946	421,245	85,905	389,094	5,041	32,151
Albany—Schenectady—Troy.....	85,882	403,142	71,981	323,518	13,901	79,624
Albuquerque.....	9,378	43,988	9,281	43,525	97	463
Allentown—Bethlehem—Easton.....	94,121	353,338	90,265	323,179	3,856	30,159
Altoona.....	8,460	26,156	8,417	25,939	43	217
Amarillo.....	3,228	12,901	3,147	12,429	81	472
Asheville.....	11,086	35,411	11,071	35,391	15	20
Atlanta.....	79,839	294,965	78,500	287,673	1,339	7,292
Atlantic City.....	6,202	18,428	6,202	18,428	...	...
Augusta.....	27,764	112,133	27,748	112,011	16	122
Austin.....	3,388	11,003	3,388	11,003	...	...
Baltimore.....	190,541	792,400	188,689	780,813	1,852	11,587
Baton Rouge.....	18,909	98,547	18,882	98,399	27	148
Bay City.....	10,691	46,787	10,691	46,787	...	...
Beaumont—Port Arthur.....	25,650	126,452	25,445	125,098	205	1,354
Binghamton.....	42,147	165,368	40,502	159,561	1,645	5,807
Birmingham.....	60,663	253,862	57,762	236,624	2,901	17,238
Boston.....	286,612	1,142,842	280,274	1,106,467	6,338	36,375
Bridgeport.....	67,545	293,654	64,873	279,486	2,672	14,168
Brockton.....	20,599	66,348	19,807	63,614	792	2,734
Buffalo.....	203,357	946,591	200,801	933,873	2,556	12,718
Canton.....	56,925	248,897	56,762	247,442	163	1,455
Cedar Rapids.....	18,593	75,970	18,457	75,434	136	536
Charleston, South Carolina.....	9,282	27,150	9,233	26,930	49	220
Charleston, West Virginia.....	25,429	128,159	23,427	116,565	2,002	11,594
Charlotte.....	22,375	73,374	21,635	68,387	740	4,987
Chattanooga.....	43,019	145,186	42,759	143,569	260	1,617
Chicago.....	983,460	4,513,579	942,819	4,256,393	40,641	257,186
Cincinnati.....	154,519	691,713	151,317	673,358	3,202	18,355
Cleveland.....	301,714	1,445,738	291,037	1,376,234	10,677	69,504
Columbia.....	7,697	20,870	7,691	20,847	6	23
Columbus, Georgia.....	17,976	44,097	17,913	43,788	63	309
Columbus, Ohio.....	74,016	319,530	72,936	314,521	1,080	5,009
Corpus Christi.....	6,910	29,328	6,721	28,241	189	1,087
Dallas.....	76,163	310,597	72,770	290,812	3,393	19,785
Davenport—Rock Island—Moline.....	36,021	160,156	35,284	154,388	737	5,768
Dayton.....	98,328	470,916	97,117	463,019	1,211	7,897
Decatur.....	12,217	53,530	12,184	52,880	33	650
Denver.....	42,583	176,666	40,774	167,289	1,809	9,377
Des Moines.....	22,809	95,717	22,482	94,592	327	1,125
Detroit.....	590,432	3,116,837	538,223	2,773,349	52,209	343,488
Dubuque.....	10,326	42,495	10,322	42,446	4	49
Duluth—Superior.....	12,740	49,739	12,724	49,617	16	122
Durham.....	13,213	40,435	13,076	39,598	137	837
El Paso.....	9,465	29,780	9,232	28,534	233	1,246
Erie.....	40,647	173,049	40,488	171,969	159	1,080
Evansville.....	32,623	137,448	32,562	137,178	61	270
Fall River.....	27,005	74,066	26,990	73,942	15	124
Flint.....	75,414	387,722	75,410	387,681	4	41
Fort Smith.....	6,376	19,472	6,376	19,472	...	...

See footnotes at end of table.

## GENERAL SUMMARY

Table 4A.—MANUFACTURING EMPLOYMENT FOR DIVISIONS, STATES AND STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS—Continued  
(For explanation of column captions see Introduction)

Division, State, standard metropolitan area, and year <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
STANDARD METROPOLITAN AREAS—Continued						
Fort Wayne.....	35,187	162,240	33,012	149,898	2,175	12,342
Fort Worth.....	48,837	212,871	48,367	211,122	470	1,749
Fresno.....	12,786	50,923	12,747	50,734	39	189
Gadsden.....	12,760	47,483	12,760	47,483	...	...
Galveston.....	10,910	54,437	10,910	54,437	...	...
Grand Rapids.....	52,372	244,845	52,337	244,270	35	575
Green Bay.....	11,226	48,055	11,071	47,193	155	862
Greensboro—High Point.....	38,588	112,415	37,380	104,332	1,208	8,083
Greenville.....	27,470	78,807	27,349	78,079	121	728
Hamilton—Middletown.....	33,052	164,221	31,764	152,989	1,288	11,232
Hampton—Newport News—Warwick.....	18,275	79,725	18,164	79,393	111	332
Harrisburg.....	32,217	109,550	31,681	106,923	536	2,627
Hartford.....	77,320	343,601	76,146	335,056	1,174	8,545
Houston.....	79,147	372,063	77,756	362,976	1,391	9,087
Huntington—Ashland.....	24,722	100,137	24,178	97,212	544	2,925
Indianapolis.....	103,147	469,429	102,233	464,243	914	5,186
Jackson, Michigan.....	15,806	73,628	15,575	72,444	231	1,184
Jackson, Mississippi.....	7,452	21,900	7,421	21,557	31	343
Jacksonville.....	17,402	58,172	17,343	57,854	59	318
Johnstown.....	23,431	84,113	23,227	82,667	204	1,446
Kalamazoo.....	24,088	108,806	23,948	108,035	140	771
Kansas City.....	118,053	515,791	115,132	497,764	2,921	18,027
Kenosha.....	15,207	66,572	15,113	65,925	94	647
Knoxville.....	34,002	120,099	33,903	119,668	99	431
Lancaster.....	43,681	157,769	42,545	150,619	1,136	7,150
Lansing.....	30,357	155,664	29,394	150,248	963	5,416
Laredo.....	856	1,658	844	1,602	12	56
Lawrence.....	17,384	59,416	17,302	59,071	82	345
Lexington.....	4,420	13,635	4,317	13,156	103	479
Lima.....	14,722	58,038	14,691	57,831	31	207
Lincoln.....	8,681	32,342	8,681	32,342	...	...
Little Rock—North Little Rock.....	11,784	34,538	11,626	33,889	158	649
Lorain—Elyria.....	30,528	138,576	30,096	136,363	432	2,213
Los Angeles—Long Beach.....	647,084	2,983,411	639,802	2,936,808	7,282	46,603
Louisville.....	88,539	375,510	84,653	354,192	3,886	21,318
Lowell.....	19,543	62,577	19,459	62,060	84	517
Lubbock.....	2,837	10,231	2,818	10,134	19	97
Macon.....	10,770	31,441	10,542	30,137	228	1,304
Madison.....	13,911	59,423	13,355	55,714	556	3,709
Manchester.....	13,702	56,999	18,698	56,947	4	52
Memphis.....	42,512	156,720	41,804	152,582	708	4,138
Miami.....	24,317	80,212	24,229	79,470	88	742
Milwaukee.....	180,473	837,473	175,802	809,880	4,671	27,593
Minneapolis—St. Paul.....	139,234	610,276	134,208	582,387	5,026	27,889
Mobile.....	15,418	56,957	15,381	56,703	37	254
Montgomery.....	6,281	17,753	6,281	17,753	...	...
Muncie.....	17,459	79,805	17,453	79,788	6	17
Nashville.....	32,691	110,612	30,499	104,061	2,192	6,551
New Bedford.....	27,903	82,772	27,852	83,549	51	223
New Britain—Bristol.....	44,141	179,469	43,950	178,017	191	1,452
New Haven.....	46,592	183,288	46,566	183,239	26	49
New Orleans.....	53,777	196,082	53,313	193,617	464	2,465
New York—Northeastern New Jersey.....	1,832,703	7,779,531	1,731,977	7,095,016	100,726	684,515
Norfolk—Portsmouth.....	15,723	55,306	15,464	54,156	259	1,150
Ogden.....	3,079	11,712	2,937	11,029	142	683
Oklahoma City.....	16,343	63,321	15,899	60,893	444	2,428
Omaha.....	33,633	134,594	30,586	121,924	3,047	12,670
Orlando.....	4,318	15,547	4,125	14,451	193	1,096
Peoria.....	41,229	185,772	37,779	167,348	3,450	18,424
Philadelphia.....	564,172	2,403,375	547,042	2,291,639	17,130	111,736
Phoenix.....	15,831	67,215	15,717	66,438	114	777
Pittsburgh.....	331,570	1,557,667	303,408	1,364,413	28,162	193,254
Pittsfield.....	16,153	75,829	15,499	71,520	654	4,309
Portland, Maine.....	13,161	45,884	13,125	45,626	36	258
Portland, Oregon.....	57,453	244,096	56,729	239,997	724	4,099
Providence.....	131,896	460,354	130,825	453,830	1,071	6,524
Pueblo.....	8,675	36,199	8,675	36,199	...	...
Racine.....	22,695	103,984	22,024	99,999	671	3,985
Raleigh.....	6,122	17,156	6,041	17,009	81	147
Reading.....	49,436	169,157	49,130	167,369	306	1,788

See footnotes at end of table.



Table 4A.—MANUFACTURING EMPLOYMENT FOR DIVISIONS, STATES AND STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS—Continued

(For explanation of column captions see Introduction)

Division, State, standard metropolitan area, and year <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
STANDARD METROPOLITAN AREAS—Continued						
Richmond.....	37,546	136,017	36,250	128,569	1,296	7,448
Roanoke.....	12,759	42,746	12,732	42,593	27	153
Rochester.....	115,180	531,822	111,385	508,033	3,795	23,789
Rockford.....	38,194	177,568	38,194	177,568	...	...
Sacramento.....	10,920	46,875	10,907	46,787	13	88
Saginaw.....	26,693	124,865	26,625	124,462	68	403
St. Joseph.....	11,268	42,791	11,207	42,574	61	217
St. Louis.....	264,117	1,131,488	251,766	1,060,335	12,351	71,153
Salt Lake City.....	15,511	62,362	15,110	60,156	401	2,206
San Angelo.....	1,865	4,741	1,865	4,741	...	...
San Antonio.....	17,935	54,630	17,894	54,372	41	258
San Bernardino—Riverside—Ontario.....	24,542	103,472	21,158	87,345	3,384	16,127
San Diego.....	48,137	224,969	47,731	221,656	406	3,313
San Francisco—Oakland.....	186,206	881,312	173,135	793,165	13,071	88,147
San Jose.....	28,434	118,868	27,942	116,213	492	2,655
Savannah.....	13,412	47,774	13,323	47,275	89	499
Scranton.....	31,561	94,655	31,478	94,351	83	304
Seattle.....	78,910	357,369	78,447	354,664	463	2,705
Shreveport.....	8,786	32,168	8,037	28,592	749	3,576
Sioux City.....	9,421	36,739	9,401	36,651	20	88
Sioux Falls.....	5,406	21,691	5,402	21,656	4	35
South Bend.....	43,622	201,674	43,622	201,674	...	...
Spokane.....	13,829	60,765	13,674	59,851	155	914
Springfield, Illinois.....	12,857	53,414	12,816	53,256	41	158
Springfield, Missouri.....	6,695	20,775	6,682	20,697	13	78
Springfield, Ohio.....	16,823	70,435	16,823	70,435	...	...
Springfield—Holyoke.....	74,496	303,873	74,350	302,543	146	1,330
Stamford—Norwalk.....	30,871	132,743	30,372	130,404	499	2,339
Stockton.....	11,145	45,631	11,033	45,205	112	426
Syracuse.....	60,355	257,058	57,440	242,617	2,915	14,441
Tacoma.....	17,534	77,270	17,052	72,643	482	4,627
Tampa—St. Petersburg.....	22,907	70,924	22,873	70,750	34	174
Terre Haute.....	10,455	40,821	10,419	40,677	36	144
Toledo.....	64,543	319,015	61,123	296,607	3,420	22,408
Topeka.....	6,174	24,060	6,010	23,711	164	349
Trenton.....	39,517	165,971	38,289	157,238	1,228	8,733
Tucson.....	4,548	20,134	4,548	20,134	...	...
Tulsa.....	30,390	132,683	28,895	124,413	1,495	8,270
Utica—Rome.....	43,125	169,169	42,941	168,193	184	976
Waco.....	7,846	27,257	7,715	26,521	131	736
Washington, D. C.....	31,732	138,202	30,373	131,088	1,359	7,114
Waterbury.....	43,029	184,443	42,186	179,067	843	5,376
Waterloo.....	16,656	72,951	16,652	72,904	4	47
Wheeling—Steubenville.....	51,298	215,397	49,687	205,685	1,611	9,712
Wichita.....	53,260	237,765	53,190	237,206	70	559
Wichita Falls.....	3,026	11,073	3,015	11,012	11	61
Wilkes—Barre—Hazleton.....	37,262	98,864	36,902	97,448	- 360	1,416
Wilmington.....	53,089	287,695	37,919	170,700	15,170	116,995
Winston—Salem.....	31,771	107,369	29,930	96,515	1,841	10,854
Worcester.....	50,685	203,884	50,197	201,435	488	2,449
York.....	45,390	162,153	45,275	161,621	115	532
Youngstown.....	106,275	483,973	105,646	479,748	629	4,225

<sup>1</sup>Employment data for administrative offices and auxiliaries on a State basis are not available for the years prior to 1949. Similar data for standard metropolitan areas are available only for 1954.

<sup>2</sup>The employment figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period. The employment figures for administrative and auxiliary units were compiled chiefly from Bureau of Old-Age and Survivors Insurance records and are not strictly comparable with the figures for these units that were collected by the Bureau of the Census for the year 1954.

<sup>3</sup>The 1951 data are shown for 1952 since auxiliary and administrative unit data were not collected in 1952. In some instances, the figures have been withheld because the estimates did not meet publication standards.

<sup>4</sup>The employment figures for administrative and auxiliary units are included with those for operating manufacturing establishments.

<sup>5</sup>The definitions of the standard metropolitan areas are shown on pages 42-44.

## STANDARD METROPOLITAN AREAS

(As defined by the Bureau of the Budget)

- AKRON STANDARD METROPOLITAN AREA—Coextensive with Summit County, Ohio
- ALBANY-SCHENECTADY-TROY STANDARD METROPOLITAN AREA—Consists of Albany, Rensselaer, and Schenectady Counties, N. Y.
- ALBUQUERQUE STANDARD METROPOLITAN AREA—Coextensive with Bernalillo County, N. Mex.
- ALLEN TOWN-BETHLEHEM-EASTON STANDARD METROPOLITAN AREA—Consists of Lehigh and Northampton Counties, Pa.; and Warren County, N. J.
- ALTOONA STANDARD METROPOLITAN AREA—Coextensive with Blair County, Pa.
- AMARILLO STANDARD METROPOLITAN AREA—Consists of Potter and Randall Counties, Tex.
- ASHEVILLE STANDARD METROPOLITAN AREA—Coextensive with Buncombe County, N. C.
- ATLANTA STANDARD METROPOLITAN AREA—Consists of Cobb, De Kalb, and Fulton Counties, Ga.
- ATLANTIC CITY STANDARD METROPOLITAN AREA—Coextensive with Atlantic County, N. J.
- AUGUSTA STANDARD METROPOLITAN AREA—Consists of Richmond County, Ga.; and Aiken County, S. C.
- AUSTIN STANDARD METROPOLITAN AREA—Coextensive with Travis County, Tex.
- BALTIMORE STANDARD METROPOLITAN AREA—Consists of Baltimore City, Baltimore and Anne Arundel Counties, Md.
- BATON ROUGE STANDARD METROPOLITAN AREA—Coextensive with East Baton Rouge Parish, La.
- BAY CITY STANDARD METROPOLITAN AREA—Coextensive with Bay County, Mich.
- BEAUMONT-PORT ARTHUR STANDARD METROPOLITAN AREA—Coextensive with Jefferson County, Tex.
- BINGHAMTON STANDARD METROPOLITAN AREA—Coextensive with Broome County, N. Y.
- BIRMINGHAM STANDARD METROPOLITAN AREA—Coextensive with Jefferson County, Ala.
- BOSTON STANDARD METROPOLITAN AREA—Consists of all of Suffolk County; Cambridge, Everett, Malden, Medford, Melrose, Newton, Somerville, Waltham, and Woburn Cities and Arlington, Ashland, Bedford, Belmont, Burlington, Concord, Framingham, Lexington, Lincoln, Natick, North Reading, Reading, Stoneham, Wakefield, Watertown, Wayland, Weston, Wilmington, and Winchester Towns in Middlesex County; Beverly, Lynn, Peabody, and Salem Cities and Danvers, Hamilton, Lynnfield, Manchester, Marblehead, Middleton, Nahant, Saugus, Swampscott, and Wenham Towns in Essex County; Quincy City and Braintree, Brookline, Canton, Cohasset, Dedham, Dover, Medfield, Milton, Needham, Norwood, Randolph, Sharon, Walpole, Wellesley, Westwood, and Weymouth Towns in Norfolk County; and Hingham and Hull Towns in Plymouth County, Mass.
- BRIDGEPORT STANDARD METROPOLITAN AREA—Consists of Bridgeport City and Fairfield, Stratford, and Trumbull Towns in Fairfield County, and Milford Town in New Haven County, Conn.
- BROCKTON STANDARD METROPOLITAN AREA—Consists of Brockton City and Abington, Bridgewater, East Bridgewater, Rockland, West Bridgewater, and Whitman Towns in Plymouth County; Avon, Holbrook, and Stoughton Towns in Norfolk County; and Easton Town in Bristol County, Mass.
- BUFFALO STANDARD METROPOLITAN AREA—Consists of Erie and Niagara Counties, N. Y.
- CANTON STANDARD METROPOLITAN AREA—Coextensive with Stark County, Ohio
- CEDAR RAPIDS STANDARD METROPOLITAN AREA—Coextensive with Linn County, Iowa
- CHARLESTON (S. C.) STANDARD METROPOLITAN AREA—Coextensive with Charleston County, S. C.
- CHARLESTON (W. Va.) STANDARD METROPOLITAN AREA—Consists of Fayette and Kanawha Counties, W. Va.
- CHARLOTTE STANDARD METROPOLITAN AREA—Coextensive with Mecklenburg County, N. C.
- CHATTANOOGA STANDARD METROPOLITAN AREA—Consists of Hamilton County, Tenn.; and Walker County, Ga.
- CHICAGO STANDARD METROPOLITAN AREA—Consists of Cook, Du Page, Kane, Lake, and Will Counties, Ill.; and Lake County, Ind.
- CINCINNATI STANDARD METROPOLITAN AREA—Consists of Hamilton County, Ohio; and Campbell and Kenton Counties, Ky.
- CLEVELAND STANDARD METROPOLITAN AREA—Consists of Cuyahoga and Lake Counties, Ohio
- COLUMBIA STANDARD METROPOLITAN AREA—Coextensive with Richland County, S. C.
- COLUMBUS (GA.) STANDARD METROPOLITAN AREA—Consists of Chattahoochee and Muscogee Counties, Ga.; and Russell County, Ala.
- COLUMBUS (OHIO) STANDARD METROPOLITAN AREA—Coextensive with Franklin County, Ohio
- CORPUS CHRISTI STANDARD METROPOLITAN AREA—Coextensive with Nueces County, Tex.
- DALLAS STANDARD METROPOLITAN AREA—Coextensive with Dallas County, Tex.
- DAVENPORT-ROCK ISLAND-MOLINE STANDARD METROPOLITAN AREA—Consists of Rock Island County, Ill.; and Scott County, Iowa
- DAYTON STANDARD METROPOLITAN AREA—Consists of Greene and Montgomery Counties, Ohio
- DECATUR STANDARD METROPOLITAN AREA—Coextensive with Macon County, Ill.
- DENVER STANDARD METROPOLITAN AREA—Consists of Adams, Arapahoe, Denver, and Jefferson Counties, Colo.
- DES MOINES STANDARD METROPOLITAN AREA—Coextensive with Polk County, Iowa
- DETROIT STANDARD METROPOLITAN AREA—Consists of Macomb, Oakland, and Wayne Counties, Mich.
- DUBUQUE STANDARD METROPOLITAN AREA—Coextensive with Dubuque County, Iowa
- DULUTH-SUPERIOR STANDARD METROPOLITAN AREA—Consists of St. Louis County, Minn.; and Douglas County, Wis.
- DURHAM STANDARD METROPOLITAN AREA—Coextensive with Durham County, N. C.
- EL PASO STANDARD METROPOLITAN AREA—Coextensive with El Paso County, Tex.
- ERIE STANDARD METROPOLITAN AREA—Coextensive with Erie County, Pa.
- EVANSVILLE STANDARD METROPOLITAN AREA—Coextensive with Vanderburgh County, Ind.
- FALL RIVER STANDARD METROPOLITAN AREA—Consists of Fall River City and Somerset, Swansea, and Westport Towns in Bristol County, Mass.; and Tiverton Town in Newport County, R. I.
- FLINT STANDARD METROPOLITAN AREA—Coextensive with Genesee County, Mich.
- FORT SMITH STANDARD METROPOLITAN AREA—Coextensive with Sebastian County, Ark.
- FORT WAYNE STANDARD METROPOLITAN AREA—Coextensive with Allen County, Ind.
- FORT WORTH STANDARD METROPOLITAN AREA—Coextensive with Tarrant County, Tex.
- FRESNO STANDARD METROPOLITAN AREA—Coextensive with Fresno County, Calif.
- GADSDEN STANDARD METROPOLITAN AREA—Coextensive with Etowah County, Ala.
- GALVESTON STANDARD METROPOLITAN AREA—Coextensive with Galveston County, Tex.
- GRAND RAPIDS STANDARD METROPOLITAN AREA—Coextensive with Kent County, Mich.
- GREEN BAY STANDARD METROPOLITAN AREA—Coextensive with Brown County, Wis.
- GREENSBORO-HIGH POINT STANDARD METROPOLITAN AREA—Coextensive with Guilford County, N. C.
- GREENVILLE STANDARD METROPOLITAN AREA—Coextensive with Greenville County, S. C.
- HAMILTON-MIDDLETOWN STANDARD METROPOLITAN AREA—Coextensive with Butler County, Ohio
- HAMPTON-NEWPORT NEWS-WARWICK STANDARD METROPOLITAN AREA—Consists of Hampton, Newport News, and Warwick Cities, Va.
- HARRISBURG STANDARD METROPOLITAN AREA—Consists of Cumberland and Dauphin Counties, Pa.
- HARTFORD STANDARD METROPOLITAN AREA—Consists of Hartford City and Avon, Bloomfield, East Hartford, Farmington, Glastonbury, Manchester, Newington, Rocky Hill, Simsbury, South Windsor, West Hartford, Wethersfield, and Windsor Towns in Hartford County, Conn.
- HOUSTON STANDARD METROPOLITAN AREA—Coextensive with Harris County, Tex.
- HUNTINGTON-ASHLAND STANDARD METROPOLITAN AREA—Consists of Cabell and Wayne Counties, W. Va.; Boyd County, Ky.; and Lawrence County, Ohio
- INDIANAPOLIS STANDARD METROPOLITAN AREA—Coextensive with Marion County, Ind.
- JACKSON (MICH.) STANDARD METROPOLITAN AREA—Coextensive with Jackson County, Mich.
- JACKSON (MISS.) STANDARD METROPOLITAN AREA—Coextensive with Hinds County, Miss.
- JACKSONVILLE STANDARD METROPOLITAN AREA—Coextensive with Duval County, Fla.
- JOHNSTOWN STANDARD METROPOLITAN AREA—Consists of Cambria and Somerset Counties, Pa.
- KALAMAZOO STANDARD METROPOLITAN AREA—Coextensive with Kalamazoo County, Mich.
- KANSAS CITY STANDARD METROPOLITAN AREA—Consists of Johnson and Wyandotte Counties, Kans.; and Clay and Jackson Counties, Mo.
- KENOSHA STANDARD METROPOLITAN AREA—Coextensive with Kenosha County, Wis.
- KNOXVILLE STANDARD METROPOLITAN AREA—Consists of Anderson, Blount, and Knox Counties, Tenn.
- LANCASTER STANDARD METROPOLITAN AREA—Coextensive with Lancaster County, Pa.
- LANSING STANDARD METROPOLITAN AREA—Coextensive with Ingham County, Mich.
- LAREDO STANDARD METROPOLITAN AREA—Coextensive with Webb County, Tex.
- LAWRENCE STANDARD METROPOLITAN AREA—Consists of Lawrence City and Andover, Methuen, and North Andover Towns in Essex County, Mass.
- LEXINGTON STANDARD METROPOLITAN AREA—Coextensive with Fayette County, Ky.



## STANDARD METROPOLITAN AREAS

- LIMA STANDARD METROPOLITAN AREA—Coextensive with Allen County, Ohio.
- LINCOLN STANDARD METROPOLITAN AREA—Coextensive with Lancaster County, Nebr.
- LITTLE ROCK-NORTH LITTLE ROCK STANDARD METROPOLITAN AREA—Coextensive with Pulaski County, Ark.
- LORAIN-ELYRIA STANDARD METROPOLITAN AREA—Coextensive with Lorain County, Ohio.
- LOS ANGELES-LONG BEACH STANDARD METROPOLITAN AREA—Consists of Los Angeles and Orange Counties, Calif.
- LOUISVILLE STANDARD METROPOLITAN AREA—Consists of Jefferson County, Ky.; and Clark and Floyd Counties, Ind.
- LOWELL STANDARD METROPOLITAN AREA—Consists of Lowell City and Billerica, Chelmsford, Dracut, and Tewksbury Towns in Middlesex County, Mass.
- LUBBOCK STANDARD METROPOLITAN AREA—Coextensive with Lubbock County, Tex.
- MACON STANDARD METROPOLITAN AREA—Consists of Bibb and Houston Counties, Ga.
- MADISON STANDARD METROPOLITAN AREA—Coextensive with Dane County, Wis.
- MANCHESTER STANDARD METROPOLITAN AREA—Consists of Manchester City and Goffstown Town in Hillsborough County, N. H.
- MEMPHIS STANDARD METROPOLITAN AREA—Coextensive with Shelby County, Tenn.
- MIAMI STANDARD METROPOLITAN AREA—Coextensive with Dade County, Fla.
- MILWAUKEE STANDARD METROPOLITAN AREA—Coextensive with Milwaukee County, Wis.
- MINNEAPOLIS-ST. PAUL STANDARD METROPOLITAN AREA—Consists of Anoka, Dakota, Hennepin, and Ramsey Counties, Minn.
- MOBILE STANDARD METROPOLITAN AREA—Coextensive with Mobile County, Ala.
- MONTGOMERY STANDARD METROPOLITAN AREA—Coextensive with Montgomery County, Ala.
- MUNCIE STANDARD METROPOLITAN AREA—Coextensive with Delaware County, Ind.
- NASHVILLE STANDARD METROPOLITAN AREA—Coextensive with Davidson County, Tenn.
- NEW BEDFORD STANDARD METROPOLITAN AREA—Consists of New Bedford City and Acushnet, Dartmouth, and Fairhaven Towns in Bristol County, Mass.
- NEW BRITAIN-BRISTOL STANDARD METROPOLITAN AREA—Consists of Bristol and New Britain Cities and Berlin, Plainville, and Southington Towns in Hartford County; and Plymouth Town in Litchfield County, Conn.
- NEW HAVEN STANDARD METROPOLITAN AREA—Consists of New Haven City and Branford, East Haven, Hamden, North Haven, Orange, West Haven and Woodbridge Towns in New Haven County, Conn.
- NEW ORLEANS STANDARD METROPOLITAN AREA—Consists of Jefferson, Orleans, and St. Bernard Parishes, La.
- NEW YORK-NORTHEASTERN NEW JERSEY STANDARD METROPOLITAN AREA—Consists of New York City (Bronx, Kings, New York, Queens, and Richmond Counties) and Nassau, Rockland, Suffolk, and Westchester Counties, N. Y.; and Bergen, Essex, Hudson, Middlesex, Morris, Passaic, Somerset, and Union Counties, N. J.
- NORFOLK-PORTSMOUTH STANDARD METROPOLITAN AREA—Consists of Norfolk and Princess Anne Counties, and the cities of Norfolk, South Norfolk, Portsmouth, and Virginia Beach, Va.
- OGDEN STANDARD METROPOLITAN AREA—Coextensive with Weber County, Utah.
- OKLAHOMA CITY STANDARD METROPOLITAN AREA—Coextensive with Oklahoma County, Okla.
- OMAHA STANDARD METROPOLITAN AREA—Consists of Douglas and Sarpy Counties, Nebr.; and Pottawattamie County, Iowa.
- ORLANDO STANDARD METROPOLITAN AREA—Coextensive with Orange County, Fla.
- PEORIA STANDARD METROPOLITAN AREA—Consists of Peoria and Tazewell Counties, Ill.
- PHILADELPHIA STANDARD METROPOLITAN AREA—Consists of Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties, Pa.; and Burlington, Camden, and Gloucester Counties, N. J.
- PHOENIX STANDARD METROPOLITAN AREA—Coextensive with Maricopa County, Ariz.
- PITTSBURGH STANDARD METROPOLITAN AREA—Consists of Allegheny, Beaver, Washington, and Westmoreland Counties, Pa.
- PITTSFIELD STANDARD METROPOLITAN AREA—Consists of Pittsfield City and Dalton, Lenox, and Lee Towns in Berkshire County, Mass.
- PORTLAND (MAINE) STANDARD METROPOLITAN AREA—Consists of Portland, South Portland, and Westbrook Cities and Cape Elizabeth and Falmouth Towns in Cumberland County, Me.
- PORTLAND (OREG.) STANDARD METROPOLITAN AREA—Consists of Clackamas, Multnomah, and Washington Counties, Oreg.; and Clark County, Wash.
- PROVIDENCE STANDARD METROPOLITAN AREA—Consists of Central Falls, Cranston, Pawtucket, Providence, and Woonsocket Cities and Cumberland, East Providence, Johnston, Lincoln, North Providence, North Smithfield, and Smithfield Towns in Providence County; North Kingston Town in Washington County; Warwick City and East Greenwich, and West Warwick Towns in Kent County; and all of Bristol County, R. I. Also Attleboro City and North Attleborough, and Seekonk Towns in Bristol County; Bellingham, Franklin, Plainville, and Wrentham Towns in Norfolk County; and Blackstone and Millville Towns in Worcester County, Mass.
- PUEBLO STANDARD METROPOLITAN AREA—Coextensive with Pueblo County, Colo.
- RACINE STANDARD METROPOLITAN AREA—Coextensive with Racine County, Wis.
- RALEIGH STANDARD METROPOLITAN AREA—Coextensive with Wake County, N. C.
- READING STANDARD METROPOLITAN AREA—Coextensive with Berks County, Pa.
- RICHMOND STANDARD METROPOLITAN AREA—Consists of Richmond City and Chesterfield, and Henrico Counties, Va.
- ROANOKE STANDARD METROPOLITAN AREA—Consists of Roanoke City and Roanoke County, Va.
- ROCHESTER STANDARD METROPOLITAN AREA—Coextensive with Monroe County, N. Y.
- ROCKFORD STANDARD METROPOLITAN AREA—Coextensive with Winnebago County, Ill.
- SACRAMENTO STANDARD METROPOLITAN AREA—Coextensive with Sacramento County, Calif.
- SAGINAW STANDARD METROPOLITAN AREA—Coextensive with Saginaw County, Mich.
- ST. JOSEPH STANDARD METROPOLITAN AREA—Coextensive with Buchanan County, Mo.
- ST. LOUIS STANDARD METROPOLITAN AREA—Consists of St. Louis City and St. Charles and St. Louis Counties, Mo.; and Madison and St. Clair Counties, Ill.
- SALT LAKE CITY STANDARD METROPOLITAN AREA—Coextensive with Salt Lake County, Utah.
- SAN ANGELO STANDARD METROPOLITAN AREA—Coextensive with Tom Green County, Tex.
- SAN ANTONIO STANDARD METROPOLITAN AREA—Coextensive with Bexar County, Tex.
- SAN BERNARDINO-RIVERSIDE-ONTARIO STANDARD METROPOLITAN AREA—Consists of San Bernardino and Riverside Counties, Calif.
- SAN DIEGO STANDARD METROPOLITAN AREA—Coextensive with San Diego County, Calif.
- SAN FRANCISCO-OAKLAND STANDARD METROPOLITAN AREA—Consists of Alameda, Contra Costa, Marin, San Francisco, San Mateo, and Solano Counties, Calif.
- SAN JOSE STANDARD METROPOLITAN AREA—Coextensive with Santa Clara County, Calif.
- SAVANNAH STANDARD METROPOLITAN AREA—Coextensive with Chatham County, Ga.
- SCRANTON STANDARD METROPOLITAN AREA—Coextensive with Lackawanna County, Pa.
- SEATTLE STANDARD METROPOLITAN AREA—Coextensive with King County, Wash.
- SHREVEPORT STANDARD METROPOLITAN AREA—Consists of Caddo and Bossier Parishes, La.
- SIoux CITY STANDARD METROPOLITAN AREA—Coextensive with Woodbury County, Iowa.
- SIoux FALLS STANDARD METROPOLITAN AREA—Coextensive with Minnehaha County, S. Dak.
- SOUTH BEND STANDARD METROPOLITAN AREA—Coextensive with St. Joseph County, Ind.
- SPOKANE STANDARD METROPOLITAN AREA—Coextensive with Spokane County, Wash.
- SPRINGFIELD (ILL.) STANDARD METROPOLITAN AREA—Coextensive with Sangamon County, Ill.
- SPRINGFIELD (MO.) STANDARD METROPOLITAN AREA—Coextensive with Greene County, Mo.
- SPRINGFIELD (OHIO) STANDARD METROPOLITAN AREA—Coextensive with Clark County, Ohio.
- SPRINGFIELD-HOLYOKE STANDARD METROPOLITAN AREA—Consists of Chicopee, Holyoke, Springfield, and Westfield Cities and Agawam, East Longmeadow, Longmeadow, Ludlow, West Springfield, and Wilbraham Towns in Hampden County; Northampton City and Easthampton, and South Hadley Towns in Hampshire County, Mass. Also Enfield Town in Hartford County, Conn.
- STAMFORD-NORWALK STANDARD METROPOLITAN AREA—Consists of Norwalk and Stamford Cities and Darien, Greenwich, New Canaan, and Westport Towns in Fairfield County, Conn.
- STOCKTON STANDARD METROPOLITAN AREA—Coextensive with San Joaquin County, Calif.
- SYRACUSE STANDARD METROPOLITAN AREA—Coextensive with Onondaga County, N. Y.
- TACOMA STANDARD METROPOLITAN AREA—Coextensive with Pierce County, Wash.
- TAMPA-ST. PETERSBURG STANDARD METROPOLITAN AREA—Consists of Hillsborough and Pinellas Counties, Fla.
- TERRE HAUTE STANDARD METROPOLITAN AREA—Coextensive with Vigo County, Ind.
- TOLEDO STANDARD METROPOLITAN AREA—Coextensive with Lucas County, Ohio.
- TOPEKA STANDARD METROPOLITAN AREA—Coextensive with Shawnee County, Kans.
- TRENTON STANDARD METROPOLITAN AREA—Coextensive with Mercer County, N. J.
- TUCSON STANDARD METROPOLITAN AREA—Coextensive with Pima County, Ariz.
- TULSA STANDARD METROPOLITAN AREA—Coextensive with Tulsa County, Okla.
- UTICA-ROME STANDARD METROPOLITAN AREA—Consists of Herkimer and Oneida Counties, N. Y.

## STANDARD METROPOLITAN AREAS

WACO STANDARD METROPOLITAN AREA—Coextensive with McLennan County, Tex.

WASHINGTON STANDARD METROPOLITAN AREA—Consists of the District of Columbia; Alexandria and Falls Church Cities and Arlington and Fairfax Counties, Va.; Montgomery and Prince Georges Counties, Md.

WATERBURY STANDARD METROPOLITAN AREA—Consists of Waterbury City, Naugatuck Borough, and Beacon Falls, Cheshire, Middlebury, Prospect, and Wolcott Towns in New Haven County; and Thomastown and Watertown Towns in Litchfield County, Conn.

WATERLOO STANDARD METROPOLITAN AREA—Coextensive with Blackhawk County, Iowa

WHEELING-STEUBENVILLE STANDARD METROPOLITAN AREA—Consists of Brooke, Hancock, Marshall, and Ohio Counties, W. Va.; and Belmont and Jefferson Counties, Ohio

WICHITA STANDARD METROPOLITAN AREA—Coextensive with Sedgwick County, Kans.

WICHITA FALLS STANDARD METROPOLITAN AREA—Coextensive with Wichita County, Tex.

WILKES-BARRE-HAZLETON STANDARD METROPOLITAN AREA—Coextensive with Luzerne County, Pa.

WILMINGTON STANDARD METROPOLITAN AREA—Consists of New Castle County, Del.; and Salem County, N. J.

WINSTON-SALEM STANDARD METROPOLITAN AREA—Coextensive with Forsyth County, N. C.

WORCESTER STANDARD METROPOLITAN AREA—Consists of Worcester City and Auburn, East Brookfield, Grafton, Holden, Leicester, Millbury, Northborough, North Brookfield, Shrewsbury, Spencer, Westborough, and West Boylston Towns in Worcester County, Mass.

YORK STANDARD METROPOLITAN AREA—Coextensive with York County, Pa.

YOUNGSTOWN STANDARD METROPOLITAN AREA—Consists of Mahoning and Trumbull Counties, Ohio, and Mercer County, Pa.



Table 4B.—GENERAL STATISTICS FOR ALL OPERATING MANUFACTURING ESTABLISHMENTS BY DIVISIONS, STATES, AND STANDARD METROPOLITAN AREAS:  
1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Division, State, Standard Metropolitan Area, and Year	Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)		
United States:								
1954 <sup>1</sup> .....	286,617	15,651,294	62,993,321	12,373,030	24,341,239	44,595,457	116,912,526	7,818,155
1953 <sup>2</sup> .....	285,000	16,693,076	66,492,872	13,500,934	27,065,569	48,979,102	121,659,136	7,541,606
1952 <sup>2</sup> .....	267,000	15,732,722	59,598,225	12,706,032	25,617,613	43,763,640	109,162,079	7,525,923
1951 <sup>2</sup> .....	262,000	15,309,638	54,741,463	12,508,914	25,263,764	40,654,832	102,085,814	7,205,059
1950 <sup>2</sup> .....	260,000	14,467,149	46,642,786	11,778,803	23,716,536	34,600,025	89,749,765	5,110,262
1949 <sup>2</sup> .....	(NA)	13,566,949	41,482,008	11,016,301	21,769,728	30,253,971	75,366,527	5,066,941
1947.....	240,807	14,293,963	39,695,558	11,917,884	24,316,465	30,243,971	74,290,475	5,998,099
1939.....	173,802	9,527,306	12,706,102	7,808,205	(NA)	8,997,515	24,487,304	(NA)
1929.....	206,663	9,659,742	14,284,282	8,369,705		10,884,919	30,591,435	
1919.....	270,231	9,836,801	12,426,902	8,464,916		9,664,009	23,841,624	
1909.....	264,810	7,012,066	4,105,470	6,261,736		3,205,213	8,160,075	
1899.....	204,750	4,850,019	2,258,654	4,501,919		1,892,574	4,646,981	
New England:								
1954 <sup>1</sup> .....	24,625	1,431,300	5,356,133	1,154,083	2,275,672	3,858,699	9,128,281	424,264
1953 <sup>2</sup> .....	(NA)	1,571,308	5,873,319	1,294,707	2,618,591	4,396,383	9,904,786	387,721
1952 <sup>2</sup> .....		1,482,089	5,318,226	1,219,812	2,489,503	3,983,283	9,023,974	419,368
1951 <sup>2</sup> .....		1,475,391	5,040,566	1,226,985	2,510,621	3,816,755	8,469,050	429,678
1950 <sup>2</sup> .....		1,418,010	4,337,683	1,181,769	2,380,143	3,288,325	7,417,675	(NA)
1949 <sup>2</sup> .....		1,323,249	3,839,403	1,097,320	2,149,529	2,849,130	6,299,364	
1947.....	20,256	1,475,162	3,940,122	1,248,839	(NA)	3,054,437	6,798,114	418,580
1939.....	15,201	1,121,152	1,402,144	947,412		1,018,683	2,414,268	(NA)
1929.....	18,272	1,245,868	1,732,759	1,098,514		1,346,391	3,239,798	
1919.....	24,552	1,509,093	1,765,285	1,347,531		1,431,687	3,221,328	
1909.....	25,351	1,187,987	669,914	1,101,290		557,630	1,193,767	
1899.....	22,576	897,305	421,070	851,903		367,675	756,311	
Maine:								
1954 <sup>1</sup> .....	3,015	104,025	322,158	91,092	180,691	260,047	565,260	58,935
1953 <sup>2</sup> .....	(NA)	109,351	350,777	96,733	197,274	288,390	583,855	38,593
1952 <sup>2</sup> .....		107,590	320,517	96,268	192,335	268,621	525,514	31,283
1951 <sup>2</sup> .....		106,671	305,444	95,753	191,147	255,732	520,998	39,635
1950 <sup>2</sup> .....		108,050	280,357	95,202	188,378	229,006	454,278	(NA)
1949 <sup>2</sup> .....		101,458	256,185	90,693	177,827	209,563	407,121	
1947.....	1,633	100,118	233,851	90,323	(NA)	199,085	429,540	35,055
1939.....	1,118	82,184	83,479	74,040		67,340	150,588	(NA)
1929.....	1,568	76,799	90,300	70,159		74,200	174,385	
1919.....	2,834	96,082	111,203	88,251		93,761	201,444	
1909.....	3,546	84,815	43,429	79,955		37,632	78,928	
1899.....	2,878	73,017	28,781	69,914		25,731	51,749	
New Hampshire:								
1954 <sup>1</sup> .....	1,609	77,071	245,346	65,987	128,465	190,760	408,826	18,492
1953 <sup>2</sup> .....	(NA)	87,866	270,025	77,589	152,822	221,870	427,126	14,581
1952 <sup>2</sup> .....		83,856	254,307	74,062	141,960	206,676	413,181	19,115
1951 <sup>2</sup> .....		85,030	243,884	75,466	140,043	197,658	407,474	25,449
1950 <sup>2</sup> .....		80,462	212,507	71,789	134,482	174,920	353,710	(NA)
1949 <sup>2</sup> .....		76,975	191,437	67,639	123,465	154,303	309,636	
1947.....	1,124	74,752	177,479	66,448	(NA)	145,324	306,932	24,010
1939.....	772	61,224	65,154	52,434		52,394	104,153	(NA)
1929.....	1,075	71,233	85,264	65,511		70,514	147,132	
1919.....	1,451	88,726	92,330	82,917		79,136	167,329	
1909.....	1,961	82,177	40,391	78,658		36,200	66,424	
1899.....	1,771	69,714	28,049	67,646		25,850	47,427	
Vermont:								
1954 <sup>1</sup> .....	1,071	35,899	122,829	29,929	59,328	92,962	222,965	8,876
1953 <sup>2</sup> .....	(NA)	38,811	143,327	32,765	69,636	110,225	246,754	9,527
1952 <sup>2</sup> .....		42,180	150,042	35,677	79,503	118,958	264,155	11,615
1951 <sup>2</sup> .....		42,334	141,867	36,450	80,408	113,242	264,622	(S)
1950 <sup>2</sup> .....		40,636	115,829	35,395	75,804	93,882	205,938	(NA)
1949 <sup>2</sup> .....		33,478	85,618	28,738	57,619	66,142	150,578	
1947.....	831	34,886	83,050	30,252	(NA)	66,428	149,715	9,698
1939.....	659	24,084	27,422	20,498		19,940	49,741	(NA)
1929.....	927	30,540	41,946	27,421		33,810	77,260	
1919.....	1,702	36,709	41,069	33,194		33,758	71,788	
1909.....	1,958	36,467	20,075	33,788		17,272	33,487	
1899.....	1,938	29,874	13,037	28,179		11,427	25,130	
Massachusetts:								
1954 <sup>1</sup> .....	11,205	677,140	2,528,296	536,456	1,047,412	1,769,102	4,356,462	180,698
1953 <sup>2</sup> .....	(NA)	733,868	2,706,164	594,325	1,185,366	1,972,574	4,630,013	157,212
1952 <sup>2</sup> .....		693,806	2,480,205	559,166	1,127,914	1,795,997	4,293,079	180,840
1951 <sup>2</sup> .....		702,683	2,404,405	572,340	1,156,740	1,764,671	4,024,945	164,708
1950 <sup>2</sup> .....		688,603	2,126,009	561,578	1,131,536	1,562,980	3,665,666	(NA)
1949 <sup>2</sup> .....		649,700	1,907,132	528,426	1,039,512	1,383,253	3,193,499	
1947.....	10,509	718,069	1,920,718	601,370	(NA)	1,463,144	3,356,311	198,985
1939.....	8,444	549,550	702,487	458,372		498,177	1,181,465	(NA)
1929.....	9,872	639,164	910,023	557,494		694,805	1,710,729	
1919.....	11,627	801,260	947,768	712,254		764,579	1,746,539	
1909.....	11,684	633,205	364,452	584,559		301,173	659,764	
1899.....	10,929	463,490	224,758	438,234		195,278	408,971	

See footnotes at end of table.

## GENERAL SUMMARY

Table 4B.—GENERAL STATISTICS FOR ALL OPERATING MANUFACTURING ESTABLISHMENTS BY DIVISIONS, STATES, AND STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS—Continued

(For explanation of column captions see Introduction)

Division, State, Standard Metropolitan Area, and Year	Establish- ments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)		
New England—Continued								
Rhode Island:								
1954 <sup>1</sup> .....	2,635	123,970	425,365	103,800	207,766	314,467	697,279	27,671
1953 <sup>2</sup> .....	(NA)	151,007	524,351	130,151	257,131	409,350	824,482	33,455
1952 <sup>2</sup> .....		130,485	442,472	110,037	227,009	339,854	724,446	29,476
1951 <sup>2</sup> .....		132,849	420,072	112,449	230,998	323,505	653,589	42,205
1950 <sup>2</sup> .....		134,043	386,468	115,307	229,636	311,231	614,636	(NA)
1949 <sup>2</sup> .....		124,495	348,105	105,982	212,052	264,042	564,100	
1947.....	2,213	147,382	375,676	128,579	(NA)	298,482	658,905	34,603
1939.....	1,399	122,671	141,262	106,089		105,216	237,698	(NA)
1929.....	1,701	140,116	182,899	126,068		144,197	324,078	
1919.....	2,367	153,499	168,068	139,316		137,105	330,590	
1909.....	1,951	120,920	65,811	113,538		55,234	122,152	
1899.....	1,678	92,219	41,296	88,197	35,995	77,599		
Connecticut:								
1954 <sup>1</sup> .....	5,090	413,193	1,712,136	326,815	652,008	1,231,359	2,877,486	129,591
1953 <sup>2</sup> .....	(NA)	450,405	1,878,675	363,144	756,362	1,393,974	3,192,556	134,353
1952 <sup>2</sup> .....		424,172	1,670,683	344,602	720,782	1,253,177	2,803,599	147,039
1951 <sup>2</sup> .....		405,824	1,524,894	334,527	711,285	1,161,947	2,597,422	139,122
1950 <sup>2</sup> .....		366,216	1,216,513	302,498	620,307	916,306	2,123,447	(NA)
1949 <sup>2</sup> .....		337,143	1,050,926	275,842	539,054	771,827	1,674,430	
1947.....	3,946	399,955	1,149,348	331,867	(NA)	881,974	1,896,711	116,223
1939.....	2,809	281,439	382,340	232,979		275,616	690,323	(NA)
1929.....	3,129	288,016	422,345	251,861		328,865	806,214	
1919.....	4,571	332,817	404,847	291,599		323,348	703,638	
1909.....	4,251	230,403	135,756	210,792		110,119	233,012	
1899.....	3,382	168,991	85,149	159,733	73,394	145,435		
Middle Atlantic:								
1954 <sup>1</sup> .....	82,380	4,105,248	16,656,158	3,212,476	6,217,339	11,524,926	30,402,190	1,551,089
1953 <sup>2</sup> .....	(NA)	4,362,051	17,572,382	3,491,465	6,915,521	12,628,266	31,654,930	1,581,553
1952 <sup>2</sup> .....		4,167,399	15,992,791	3,320,456	6,636,902	11,433,562	28,590,270	1,665,191
1951 <sup>2</sup> .....		4,064,369	14,834,813	3,273,735	6,591,917	10,732,197	26,666,411	1,565,054
1950 <sup>2</sup> .....		3,905,535	12,816,031	3,121,292	6,266,825	9,234,588	23,503,166	(NA)
1949 <sup>2</sup> .....		3,737,368	11,728,888	2,978,628	5,895,373	8,353,497	20,675,914	
1947.....	75,341	3,953,870	11,419,701	3,248,732	(NA)	8,524,628	20,767,991	1,335,235
1939.....	52,226	2,757,909	3,859,853	2,234,295		2,668,489	7,308,780	(NA)
1929.....	64,730	3,002,843	4,853,031	2,562,340		3,640,419	10,175,956	
1919.....	85,509	3,348,567	4,463,569	2,859,604		3,447,834	8,399,615	
1909.....	81,315	2,491,161	1,527,833	2,207,747		1,182,568	2,982,264	
1899.....	65,834	1,732,170	871,309	1,604,844	729,366	1,763,315		
New York:								
1954 <sup>1</sup> .....	50,402	1,895,982	7,734,388	1,470,137	2,842,598	5,231,858	14,140,524	572,125
1953 <sup>2</sup> .....	(NA)	1,977,426	7,996,237	1,555,434	3,053,837	5,546,020	14,410,234	511,573
1952 <sup>2</sup> .....		1,889,036	7,321,717	1,472,952	2,938,539	5,047,403	13,145,941	528,407
1951 <sup>2</sup> .....		1,816,230	6,711,253	1,427,398	2,852,200	4,649,236	11,933,729	532,654
1950 <sup>2</sup> .....		1,762,624	5,878,192	1,365,557	2,738,306	4,083,728	10,511,860	(NA)
1949 <sup>2</sup> .....		1,704,398	5,474,015	1,318,111	2,624,563	3,765,549	9,528,110	
1947.....	47,782	1,773,138	5,277,656	1,425,033	(NA)	3,821,492	9,655,859	497,443
1939.....	32,672	1,211,010	1,749,676	949,362		1,151,820	3,313,649	(NA)
1929.....	39,395	1,331,357	2,294,882	1,105,966		1,650,379	4,973,920	
1919.....	48,331	1,467,443	1,961,398	1,221,933		1,450,119	3,908,864	
1909.....	44,935	1,155,672	743,263	1,003,981		557,231	1,512,586	
1899.....	35,957	794,939	414,064	726,909	337,324	853,454		
New Jersey:								
1954 <sup>1</sup> .....	13,183	787,593	3,352,425	605,099	1,187,747	2,280,134	6,331,178	359,816
1953 <sup>2</sup> .....	(NA)	835,544	3,497,451	657,259	1,320,039	2,478,978	6,451,055	325,616
1952 <sup>2</sup> .....		778,328	3,171,990	610,977	1,257,938	2,252,693	5,764,365	305,466
1951 <sup>2</sup> .....		762,875	2,901,179	610,018	1,248,586	2,095,668	5,310,912	355,669
1950 <sup>2</sup> .....		721,493	2,498,816	575,288	1,175,553	1,785,940	4,867,312	(NA)
1949 <sup>2</sup> .....		684,903	2,237,620	546,552	1,095,264	1,593,950	4,206,331	
1947.....	10,765	739,035	2,216,874	602,304	(NA)	1,645,489	4,186,077	303,987
1939.....	7,438	531,126	753,941	431,562		519,087	1,518,269	(NA)
1929.....	8,388	516,576	808,862	442,328		610,596	1,771,430	
1919.....	10,564	590,920	769,258	507,059		598,514	1,397,775	
1909.....	8,817	363,061	218,046	326,223		169,710	425,496	
1899.....	6,415	229,336	114,223	213,975	95,165	218,280		
Pennsylvania:								
1954 <sup>1</sup> .....	18,795	1,421,673	5,569,345	1,137,241	2,186,993	4,012,932	9,930,486	619,147
1953 <sup>2</sup> .....	(NA)	1,549,081	6,078,694	1,278,772	2,541,645	4,603,268	10,793,641	744,364
1952 <sup>2</sup> .....		1,500,035	5,499,084	1,236,527	2,440,425	4,133,466	9,679,964	831,318
1951 <sup>2</sup> .....		1,485,264	5,222,381	1,236,319	2,491,131	3,987,293	9,421,770	676,731
1950 <sup>2</sup> .....		1,421,418	4,439,023	1,180,447	2,352,966	3,364,920	8,123,994	(NA)
1949 <sup>2</sup> .....		1,348,067	4,017,253	1,113,965	2,175,546	2,993,998	6,941,473	
1947.....	16,794	1,441,697	3,925,171	1,221,395	(NA)	3,057,647	6,926,055	533,805
1939.....	13,116	1,015,773	1,356,236	853,371		997,582	2,476,862	(NA)
1929.....	16,947	1,154,910	1,749,287	1,014,046		1,379,444	3,430,606	
1919.....	26,614	1,290,204	1,732,913	1,130,612		1,399,201	3,092,976	
1909.....	27,563	972,428	566,524	877,543		455,627	1,044,182	
1899.....	23,462	707,895	343,022	663,960	296,877	691,581		

See footnotes at end of table.



## GENERAL SUMMARY

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Table 4B.—GENERAL STATISTICS FOR ALL OPERATING MANUFACTURING ESTABLISHMENTS BY DIVISIONS, STATES, AND STANDARD METROPOLITAN AREAS:  
1954 AND EARLIER YEARS—Continued

(For explanation of column captions see Introduction)

Division, State, Standard Metropolitan Area, and Year	Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)		
East North Central:								
1954 <sup>1</sup> .....	58,946	4,459,829	20,003,625	3,489,654	6,964,115	14,265,381	36,500,510	2,653,891
1953 <sup>2</sup> .....		5,000,314	22,124,246	4,008,696	8,166,737	16,417,096	39,926,490	2,535,657
1952 <sup>2</sup> .....		4,628,971	19,568,947	3,685,187	7,557,235	14,404,477	35,533,088	2,461,857
1951 <sup>2</sup> .....	(NA)	4,585,164	18,205,441	3,705,677	7,617,045	13,569,131	33,543,646	2,351,830
1950 <sup>2</sup> .....		4,328,066	15,559,155	3,496,240	7,170,060	11,592,155	29,818,015	(NA)
1949 <sup>2</sup> .....		4,008,911	13,542,806	3,217,736	6,423,806	9,870,679	24,501,907	
1947.....	50,569	4,322,812	13,019,237	3,567,725		9,940,544	23,474,185	1,863,548
1939.....	38,013	2,692,815	4,092,078	2,180,600		2,932,440	7,744,406	
1929.....	46,396	2,949,356	4,841,271	2,542,176	(NA)	3,738,803	9,973,491	
1919.....	58,717	2,824,606	3,849,389	2,387,477		2,981,205	7,093,838	(NA)
1909.....	60,013	1,729,537	1,077,660	1,513,764		827,153	2,177,230	
1899.....	50,521	1,176,672	574,539	1,073,322		473,040	1,205,478	
Ohio:								
1954 <sup>1</sup> .....	14,550	1,267,542	5,655,721	986,282	1,947,963	4,018,755	10,165,111	760,932
1953 <sup>2</sup> .....		1,383,971	5,166,115	1,106,329	2,264,391	4,586,641	11,192,103	672,246
1952 <sup>2</sup> .....		1,311,233	5,548,298	1,043,719	2,125,892	4,092,735	10,037,844	731,524
1951 <sup>2</sup> .....	(NA)	1,277,891	5,117,121	1,028,445	2,120,984	3,802,661	9,396,104	790,976
1950 <sup>2</sup> .....		1,170,623	4,162,022	935,796	1,894,489	3,071,701	7,972,073	(NA)
1949 <sup>2</sup> .....		1,078,746	3,585,634	860,447	1,689,299	2,595,797	6,412,895	
1947.....	12,302	1,194,263	3,559,540	988,019		2,726,991	6,357,957	498,254
1939.....	9,543	731,742	1,120,831	595,520		809,399	2,116,434	
1929.....	11,855	853,385	1,404,180	741,143	(NA)	1,102,166	2,889,804	
1919.....	15,585	867,255	1,214,552	728,303		941,340	2,182,610	(NA)
1909.....	15,138	508,285	317,597	446,934		245,450	613,734	
1899.....	13,868	336,218	164,579	308,109		136,428	339,368	
Indiana:								
1954 <sup>1</sup> .....	6,355	582,803	2,504,411	457,965	902,354	1,796,754	4,625,477	301,247
1953 <sup>2</sup> .....		679,399	2,869,657	553,928	1,114,095	2,180,370	5,205,348	420,827
1952 <sup>2</sup> .....		604,949	2,419,456	491,750	979,713	1,826,933	4,523,533	362,788
1951 <sup>2</sup> .....	(NA)	591,565	2,260,924	487,909	991,914	1,735,432	4,278,221	333,951
1950 <sup>2</sup> .....		558,370	1,938,651	461,334	936,525	1,485,702	3,832,892	(NA)
1949 <sup>2</sup> .....		506,350	1,658,144	414,857	829,208	1,254,500	3,059,100	
1947.....	5,403	548,260	1,582,237	457,544		1,232,189	2,969,961	302,104
1939.....	4,192	337,869	474,099	275,272		342,652	964,746	
1929.....	5,091	359,888	534,186	314,698	(NA)	418,771	1,136,463	
1919.....	7,558	322,362	400,942	276,695		315,976	721,736	(NA)
1909.....	7,969	210,589	121,816	186,984		95,511	244,700	
1899.....	7,128	149,464	69,251	139,017		59,280	141,909	
Illinois:								
1954 <sup>1</sup> .....	17,628	1,177,933	5,137,353	903,784	1,789,154	3,520,339	9,668,752	551,882
1953 <sup>2</sup> .....		1,284,031	5,495,229	1,003,889	2,039,317	3,901,970	10,111,624	596,446
1952 <sup>2</sup> .....		1,234,323	5,050,519	956,714	1,957,825	3,547,742	9,319,779	596,433
1951 <sup>2</sup> .....	(NA)	1,219,701	4,709,159	956,588	1,969,685	3,347,116	8,835,548	479,973
1950 <sup>2</sup> .....		1,163,316	4,042,835	909,035	1,849,754	2,851,103	7,933,449	(NA)
1949 <sup>2</sup> .....		1,103,973	3,697,953	860,475	1,733,932	2,557,792	6,898,999	
1947.....	15,993	1,186,134	3,589,364	955,057		2,628,615	6,683,083	472,657
1939.....	11,983	752,728	1,107,625	590,995		742,451	2,187,240	
1929.....	15,333	827,507	1,393,592	691,555	(NA)	1,024,870	2,930,038	
1919.....	17,808	785,859	1,070,992	649,994		797,081	1,929,125	(NA)
1909.....	18,026	543,687	364,768	465,764		273,319	758,350	
1899.....	14,374	373,835	199,653	332,871		159,104	439,418	
Michigan:								
1954 <sup>1</sup> .....	12,711	1,001,630	4,891,749	809,316	1,655,338	3,660,965	8,707,194	870,465
1953 <sup>2</sup> .....		1,179,258	5,623,046	971,442	1,987,301	4,327,145	9,781,647	678,537
1952 <sup>2</sup> .....		1,021,265	4,708,765	831,893	1,735,435	3,587,302	8,320,712	588,169
1951 <sup>2</sup> .....	(NA)	1,042,326	4,380,279	868,748	1,761,238	3,397,426	7,858,442	551,873
1950 <sup>2</sup> .....		1,012,145	3,952,496	850,623	1,769,229	3,112,945	7,392,255	(NA)
1949 <sup>2</sup> .....		922,362	3,333,103	768,876	1,528,224	2,559,767	5,769,964	
1947.....	9,891	975,481	3,097,336	823,255		2,444,552	5,200,135	427,746
1939.....	5,961	618,702	1,024,965	520,165		788,036	1,794,016	
1929.....	6,686	599,179	1,041,789	530,035	(NA)	840,505	2,067,344	
1919.....	8,046	541,175	787,241	470,274		638,420	1,544,581	(NA)
1909.....	9,159	262,106	153,838	231,499		118,968	316,497	
1899.....	7,310	169,150	74,868	155,800		62,532	143,726	
Wisconsin:								
1954 <sup>1</sup> .....	7,702	429,919	1,814,390	332,305	669,304	1,268,569	3,333,976	169,363
1953 <sup>2</sup> .....		473,655	1,970,199	373,108	761,633	1,420,970	3,635,768	167,601
1952 <sup>2</sup> .....		477,201	1,841,909	361,111	758,370	1,349,765	3,331,220	182,943
1951 <sup>2</sup> .....	(NA)	453,681	1,737,958	363,987	773,224	1,286,496	3,175,331	195,057
1950 <sup>2</sup> .....		423,612	1,463,151	339,452	720,063	1,070,704	2,687,346	(NA)
1949 <sup>2</sup> .....		397,480	1,267,972	313,081	643,143	902,823	2,360,949	
1947.....	6,980	418,674	1,190,760	343,850		908,197	2,263,047	162,787
1939.....	6,334	251,774	364,558	198,648		249,902	681,970	
1929.....	7,431	309,397	467,524	264,745	(NA)	352,491	949,842	
1919.....	9,720	307,955	375,662	262,211		288,388	715,786	(NA)
1909.....	9,721	204,870	119,641	182,583		93,905	243,949	
1899.....	7,841	148,005	66,188	137,525		55,696	141,057	

See footnotes at end of table.

## GENERAL SUMMARY

Table 4B.—GENERAL STATISTICS FOR ALL OPERATING MANUFACTURING ESTABLISHMENTS BY DIVISIONS, STATES, AND STANDARD METROPOLITAN AREAS:  
1954 AND EARLIER YEARS—Continued

(For explanation of column captions see Introduction)

Division, State, Standard Metropolitan Area, and Year	Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)		
West North Central:								
1954 <sup>1</sup> .....	19,020	939,357	3,731,449	713,222	1,426,488	2,573,277	7,113,835	389,113
1953 <sup>2</sup> .....		978,919	3,808,732	770,470	1,558,465	2,764,322	7,050,337	358,591
1952 <sup>2</sup> .....		946,917	3,496,043	739,486	1,520,663	2,502,059	6,404,371	319,684
1951 <sup>2</sup> .....	(NA)	881,557	3,032,555	691,971	1,410,879	2,180,216	5,688,029	353,344
1950 <sup>2</sup> .....		811,926	2,529,007	637,452	1,291,604	1,803,214	5,154,364	(NA)
1949 <sup>2</sup> .....		778,589	2,297,964	611,224	1,215,493	1,593,854	4,394,939	(NA)
1947.....	17,389	706,147	2,069,657	635,455		1,507,209	4,115,706	340,462
1939.....	14,066	490,651	642,705	376,156		420,581	1,348,167	
1929.....	17,792	567,160	804,673	474,115	(NA)	589,162	1,869,991	(NA)
1919.....	26,255	603,866	734,649	492,054		536,304	1,387,774	
1909.....	27,171	437,777	274,298	374,337		204,793	562,044	
1899.....	20,732	296,657	146,336	266,051		117,209	325,404	
Minnesota:								
1954 <sup>1</sup> .....	5,027	203,022	834,888	151,132	305,345	560,492	1,594,505	82,188
1953 <sup>2</sup> .....		207,648	834,484	161,252	330,935	603,780	1,554,405	96,113
1952 <sup>2</sup> .....		208,199	786,442	158,468	325,786	542,643	1,445,476	55,559
1951 <sup>2</sup> .....	(NA)	196,901	711,211	151,568	311,967	499,307	1,301,396	66,485
1950 <sup>2</sup> .....		180,864	593,914	142,122	290,737	414,814	1,200,204	(NA)
1949 <sup>2</sup> .....		177,581	558,893	139,476	276,618	374,919	1,081,848	(NA)
1947.....	4,563	181,514	508,352	145,020		358,605	1,021,274	82,800
1939.....	3,735	102,179	143,397	78,023		95,273	306,840	
1929.....	4,315	124,231	180,142	103,414	(NA)	132,418	404,995	(NA)
1919.....	5,633	140,414	169,843	113,781		124,811	327,921	
1909.....	5,561	99,030	62,923	84,767		47,471	127,797	
1899.....	4,096	71,182	35,093	64,557		29,029	73,394	
Iowa:								
1954 <sup>1</sup> .....	3,320	162,705	643,980	122,763	248,683	443,615	1,235,965	73,410
1953 <sup>2</sup> .....		165,773	640,194	130,011	264,734	465,703	1,179,513	64,614
1952 <sup>2</sup> .....		158,783	591,782	120,417	250,220	423,495	1,113,171	59,783
1951 <sup>2</sup> .....	(NA)	156,489	544,556	118,440	246,959	392,223	1,018,667	87,358
1950 <sup>2</sup> .....		146,929	449,862	110,296	224,957	320,032	925,762	(NA)
1949 <sup>2</sup> .....		140,020	414,982	106,737	217,271	289,046	795,502	(NA)
1947.....	2,963	140,397	372,285	112,467		275,411	671,008	64,686
1939.....	2,541	88,054	114,087	64,773		72,889	243,390	
1929.....	3,317	97,414	137,243	81,678	(NA)	102,327	323,820	(NA)
1919.....	5,104	98,470	122,168	79,196		88,381	221,757	
1909.....	5,528	73,037	43,514	61,635		32,542	88,531	
1899.....	4,828	49,579	22,253	44,420		18,021	47,092	
Missouri:								
1954 <sup>1</sup> .....	6,198	368,479	1,420,103	285,378	552,691	977,327	2,727,266	124,394
1953 <sup>2</sup> .....		392,950	1,499,153	314,145	621,328	1,083,365	2,786,829	112,844
1952 <sup>2</sup> .....	(NA)	369,108	1,325,108	292,704	580,437	942,611	2,422,709	124,206
1951 <sup>2</sup> .....		349,168	1,142,343	279,791	538,259	815,322	2,177,950	101,990
1950 <sup>2</sup> .....		330,813	1,003,357	265,312	521,661	720,622	2,045,318	(NA)
1949 <sup>2</sup> .....		317,662	914,845	253,984	493,180	639,496	1,731,153	(NA)
1947.....	5,721	327,114	826,179	269,394		606,825	1,620,887	132,166
1939.....	4,487	220,269	280,667	175,983	(NA)	187,514	581,804	
1929.....	5,765	240,602	332,278	202,879		240,369	777,497	(NA)
1919.....	8,175	235,772	273,722	193,754		194,927	534,616	
1909.....	8,375	177,479	109,837	152,993		80,843	219,700	
1899.....	6,853	120,178	60,009	107,704		46,714	132,115	
North Dakota:								
1954 <sup>1</sup> .....	367	5,604	19,189	3,913	8,323	12,517	34,991	16,244
1953 <sup>2</sup> .....	(NA)	7,796	24,175	5,398	9,996	15,958	46,765	3,694
1952 <sup>2</sup> .....		5,896	16,745	4,049	8,926	11,134	31,201	(S)
1947.....	361	5,209	12,321	3,817		8,476	29,431	2,250
1939.....	342	4,075	4,968	2,605		2,737	10,984	
1929.....	373	5,017	7,762	4,024	(NA)	5,687	15,637	(NA)
1919.....	755	5,033	6,424	4,169		5,033	12,198	
1909.....	752	3,425	2,416	2,789		1,787	5,464	
1899.....	337	1,510	801	1,358		671	2,109	
South Dakota:								
1954 <sup>1</sup> .....	546	11,531	41,096	8,414	17,990	27,977	77,692	3,444
1953 <sup>2</sup> .....	(NA)	10,441	37,038	7,619	16,122	26,920	80,703	3,270
1952 <sup>2</sup> .....		11,554	41,937	9,931	21,460	33,625	76,022	2,148
1947.....	494	10,265	25,796	8,062		19,193	51,398	3,371
1939.....	450	7,327	9,036	5,421		5,905	19,619	
1929.....	615	7,803	10,691	6,535	(NA)	8,132	22,681	(NA)
1919.....	1,054	6,774	8,773	5,588		6,751	17,070	
1909.....	1,020	4,284	2,914	3,602		2,298	6,394	
1899.....	624	2,512	1,305	2,224		1,130	3,046	

See footnotes at end of table.



Table 4B.—GENERAL STATISTICS FOR ALL OPERATING MANUFACTURING ESTABLISHMENTS BY DIVISIONS, STATES, AND STANDARD METROPOLITAN AREAS:  
1954 AND EARLIER YEARS—Continued

(For explanation of column captions see Introduction)

Division, State, Standard Metropolitan Area, and Year	Establish- ments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)		
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
West North Central—Continued										
Nebraska:										
1954 <sup>1</sup> .....	1,423	{	56,996	213,732	43,431	90,351	150,728	394,222	36,414	
1953 <sup>2</sup> .....			57,424	210,073	45,006	93,247	152,862	401,398	19,342	
1952 <sup>2</sup> .....			53,031	185,996	41,779	90,885	135,564	344,436	21,807	
1951 <sup>2</sup> .....			(NA)	50,651	166,796	40,433	86,725	124,996	336,725	16,853
1950 <sup>2</sup> .....			47,984	147,617	36,371	77,894	101,644	270,579	(NA)	
1949 <sup>2</sup> .....			45,276	123,114	34,942	70,194	84,289	219,880		
1947.....	1,341	{	47,014	119,884	37,325	{	87,400	260,598	18,402	
1939.....	1,093		26,183	34,138	18,416		20,175	68,139		
1929.....	1,491		34,752	51,347	28,212		36,881	119,994		
1919.....	2,385		44,924	60,138	35,387		44,513	112,646	(NA)	
1909.....	2,500		29,444	19,439	24,336		13,948	47,938		
1899.....	1,695		20,965	10,950	18,669		8,842	34,377		
Kansas:										
1954 <sup>1</sup> .....	2,139	{	131,017	558,457	98,187	203,102	400,619	1,049,291	53,017	
1953 <sup>2</sup> .....			136,886	563,615	107,039	222,103	415,734	1,000,724	58,714	
1952 <sup>2</sup> .....			140,346	548,033	112,138	242,949	412,987	971,356	54,779	
1951 <sup>2</sup> .....			(NA)	111,874	417,134	89,267	201,281	313,928	749,333	74,264
1950 <sup>2</sup> .....			87,622	283,031	69,982	147,475	209,397	613,500	(NA)	
1949 <sup>2</sup> .....		82,090	243,790	63,767	129,551	174,038	499,492			
1947.....	1,946	{	74,634	204,840	59,370	{	151,299	461,110	36,787	
1939.....	1,418		42,564	56,412	30,935		36,088	117,391		
1929.....	1,916		57,341	85,210	47,373		63,348	205,367		
1919.....	3,149		72,479	93,581	60,179		71,888	161,566	(NA)	
1909.....	3,435		51,078	33,255	44,215		25,904	66,220		
1899.....	2,299		30,731	15,925	27,119		12,802	33,271		
South Atlantic:										
1954 <sup>1</sup> .....	30,530	{	1,745,372	5,480,901	1,466,333	2,847,757	4,072,169	10,657,729	789,254	
1953 <sup>2</sup> .....			1,783,099	5,493,716	1,525,603	3,000,697	4,270,016	10,686,205	760,852	
1952 <sup>2</sup> .....			(NA)	1,722,184	5,010,227	1,484,507	2,902,768	3,903,100	9,656,904	687,892
1951 <sup>2</sup> .....			1,667,970	4,641,801	1,451,120	2,843,829	3,647,683	9,316,475	795,660	
1950 <sup>2</sup> .....			1,604,261	4,066,254	1,388,791	2,728,620	3,217,890	8,471,115	(NA)	
1949 <sup>2</sup> .....		1,502,335	3,611,821	1,301,533	2,504,937	2,819,696	7,074,658			
1947.....	24,000	{	1,523,890	3,371,438	1,344,836	{	2,710,001	6,941,906	677,651	
1939.....	16,657		1,110,704	1,073,672	977,596		818,075	2,216,976		
1929.....	20,860		999,995	1,035,670	912,247		825,903	2,458,223		
1919.....	28,682		896,592	940,127	812,122		771,839	1,846,999	(NA)	
1909.....	28,088		715,047	301,652	663,015		244,379	591,182		
1899.....	19,324		482,712	153,274	458,344		130,864	316,115		
Delaware:										
1954 <sup>1</sup> .....	556	{	39,418	151,269	30,988	60,451	104,882	353,083	23,375	
1953 <sup>2</sup> .....			43,493	164,641	33,817	68,176	118,736	378,975	27,024	
1952 <sup>2</sup> .....			(NA)	45,367	164,913	36,530	73,832	121,142	372,445	31,511
1951 <sup>2</sup> .....			43,506	142,977	35,578	70,870	105,733	326,715	22,814	
1950 <sup>2</sup> .....			40,928	121,435	34,116	66,465	89,388	287,592	(NA)	
1949 <sup>2</sup> .....		37,075	106,528	30,456	61,637	77,601	229,813			
1947.....	483	{	34,738	92,858	29,275	{	70,578	183,073	21,137	
1939.....	416		23,360	29,114	19,825		21,163	54,085		
1929.....	460		26,556	37,407	23,552		29,063	69,151		
1919.....	653		33,231	44,914	28,994		37,214	79,547	(NA)	
1909.....	726		23,262	12,618	21,238		10,296	21,902		
1899.....	633		21,751	9,794	20,562		8,457	16,596		
Maryland:										
1954 <sup>1</sup> .....	3,253	{	253,144	987,559	195,916	384,180	675,056	1,888,585	93,839	
1953 <sup>2</sup> .....			259,303	1,001,510	205,621	413,793	719,048	1,854,582	115,935	
1952 <sup>2</sup> .....			(NA)	258,339	907,367	206,978	411,676	652,243	1,706,104	96,598
1951 <sup>2</sup> .....			248,065	841,658	200,199	415,743	609,380	1,603,006	98,208	
1950 <sup>2</sup> .....			220,505	672,354	176,512	357,589	488,119	1,455,095	(NA)	
1949 <sup>2</sup> .....		209,577	612,450	169,373	328,866	439,258	1,203,069			
1947.....	2,826	{	228,655	612,296	188,696	{	458,282	1,139,240	123,599	
1939.....	2,712		166,091	209,193	140,930		155,938	420,589		
1929.....	3,231		150,906	195,013	131,099		148,835	422,097		
1919.....	4,725		159,362	188,223	139,241		146,578	322,092	(NA)	
1909.....	4,837		120,113	59,053	107,921		45,436	116,620		
1899.....	3,886		100,911	39,260	94,170		32,414	81,722		
District of Columbia:										
1954 <sup>1</sup> .....	484	{	20,399	90,083	11,821	22,390	44,743	157,213	6,536	
1953 <sup>2</sup> .....			19,228	88,259	9,781	19,391	37,297	150,687	3,733	
1952 <sup>2</sup> .....			(NA)	17,930	71,481	9,859	(S)	36,047	129,422	3,884
1951 <sup>2</sup> .....			17,175	65,634	9,944	(S)	33,254	126,803	6,983	
1950 <sup>2</sup> .....			17,118	60,905	10,006	(S)	31,664	113,746	(NA)	
1949 <sup>2</sup> .....		16,854	58,618	9,690	(S)	31,463	123,340			
1947.....	428	{	17,815	55,872	10,007	{	27,691	99,067	4,502	
1939.....	452		14,377	24,920	7,676		11,505	43,367		
1929.....	547		14,002	25,449	9,752		15,513	52,773		
1919.....	568		13,327	18,537	10,268		12,960	37,404	(NA)	
1909.....	518		9,283	6,835	7,707		4,989	15,043		
1899.....	491		7,112	3,895	6,155		3,023	8,951		

See footnotes at end of table.

## GENERAL SUMMARY

Table 4B.—GENERAL STATISTICS FOR ALL OPERATING MANUFACTURING ESTABLISHMENTS BY DIVISIONS, STATES, AND STANDARD METROPOLITAN AREAS:  
1954 AND EARLIER YEARS—Continued

(For explanation of column captions see Introduction)

Division, State, Standard Metropolitan Area, and Year	Establish- ments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures new (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)		
South Atlantic--Continued								
Virginia:								
1954 <sup>1</sup> .....	4,398	239,733	760,454	202,654	394,735	576,844	1,629,041	109,887
1953 <sup>2</sup> .....	(NA)	253,796	781,301	217,783	424,413	616,717	1,629,938	134,874
1952 <sup>2</sup> .....		238,446	701,957	204,207	402,061	550,390	1,467,005	88,642
1951 <sup>2</sup> .....		229,198	633,953	197,146	381,450	494,011	1,447,535	127,952
1950 <sup>2</sup> .....		222,103	563,404	192,484	374,658	445,475	1,326,495	(NA)
1949 <sup>2</sup> .....		212,516	509,168	185,250	352,611	399,410	1,085,249	(NA)
1947.....	3,643	216,507	483,575	189,942	(NA)	384,293	1,050,623	112,383
1939.....	2,494	150,202	150,359	132,089		113,848	376,259	(NA)
1929.....	3,287	131,586	147,352	120,273		118,089	380,086	
1919.....	5,487	132,842	145,423	118,976		119,583	271,131	
1909.....	5,685	114,227	47,256	105,676		38,155	94,211	
1899.....	3,186	70,051	23,903	66,223		20,274	49,285	
West Virginia:								
1954 <sup>1</sup> .....	2,027	118,568	472,560	97,322	185,651	354,666	988,274	98,883
1953 <sup>2</sup> .....	(NA)	130,032	502,625	108,419	212,296	393,764	1,105,374	96,527
1952 <sup>2</sup> .....		131,014	462,132	110,657	210,557	361,141	1,009,176	93,838
1951 <sup>2</sup> .....		134,609	451,326	114,761	222,585	355,654	1,036,456	107,716
1950 <sup>2</sup> .....		124,420	376,849	105,901	204,807	299,941	882,401	(NA)
1949 <sup>2</sup> .....		120,550	345,308	100,946	193,186	267,602	719,921	(NA)
1947.....	1,602	127,354	337,869	108,985	(NA)	268,469	663,903	82,332
1939.....	1,094	87,741	113,660	74,411		87,760	213,284	(NA)
1929.....	1,488	93,565	136,291	85,326		115,295	251,615	
1919.....	2,627	90,651	118,898	82,615		101,310	199,568	
1909.....	2,586	68,864	38,710	63,893		33,000	69,072	
1899.....	1,824	34,824	14,159	33,080		12,640	29,779	
North Carolina:								
1954 <sup>1</sup> .....	6,645	430,001	1,157,416	380,089	719,429	915,683	2,210,463	129,622
1953 <sup>2</sup> .....	(NA)	442,719	1,185,639	395,554	760,806	973,921	2,274,019	126,758
1952 <sup>2</sup> .....		414,943	1,071,309	373,768	718,299	883,149	2,013,824	117,058
1951 <sup>2</sup> .....		409,776	1,019,722	370,698	705,509	844,282	1,948,452	135,201
1950 <sup>2</sup> .....		405,583	947,406	367,263	716,036	788,662	1,862,825	(NA)
1949 <sup>2</sup> .....		366,059	806,324	333,633	627,350	671,737	1,627,572	(NA)
1947.....	5,321	381,438	758,757	350,177	(NA)	641,917	1,646,030	137,583
1939.....	3,158	293,258	245,879	269,238		198,519	544,181	(NA)
1929.....	3,797	226,425	198,810	209,826		160,868	693,013	
1919.....	5,690	167,848	148,361	156,376		124,978	413,707	
1909.....	4,931	128,002	41,259	121,473		34,355	94,795	
1899.....	3,465	75,216	16,447	72,322		14,052	40,420	
South Carolina:								
1954 <sup>1</sup> .....	2,720	219,447	632,709	190,119	378,931	486,960	1,040,936	59,629
1953 <sup>2</sup> .....	(NA)	221,860	606,907	201,047	404,250	513,537	1,056,243	58,859
1952 <sup>2</sup> .....		206,182	558,026	187,241	375,761	466,588	969,926	93,122
1951 <sup>2</sup> .....		199,681	520,455	184,684	364,031	447,697	926,277	130,505
1950 <sup>2</sup> .....		194,408	461,773	178,455	355,418	402,060	857,716	(NA)
1949 <sup>2</sup> .....		187,678	420,682	169,759	336,067	358,053	719,044	(NA)
1947.....	2,135	188,760	377,105	175,889	(NA)	330,670	793,915	61,743
1939.....	1,300	136,094	103,171	126,408		86,280	169,294	(NA)
1929.....	1,659	113,876	86,023	108,777		73,223	159,351	
1919.....	1,821	83,982	72,336	78,918		61,934	152,301	
1909.....	1,854	76,303	24,117	73,046		20,361	46,885	
1899.....	1,369	48,444	10,438	47,025		9,130	22,850	
Georgia:								
1954 <sup>1</sup> .....	5,655	301,290	843,557	260,082	503,497	642,582	1,592,411	162,849
1953 <sup>2</sup> .....	(NA)	303,017	834,347	263,447	517,355	650,485	1,545,467	93,937
1952 <sup>2</sup> .....		292,342	742,243	259,268	497,866	587,871	1,355,318	93,331
1951 <sup>2</sup> .....		281,987	685,981	253,182	496,464	556,350	1,332,659	110,159
1950 <sup>2</sup> .....		288,926	640,269	251,117	488,185	513,178	1,235,957	(NA)
1949 <sup>2</sup> .....		268,335	550,377	235,190	448,583	431,290	1,001,242	(NA)
1947.....	4,755	249,958	484,289	225,838	(NA)	399,862	1,016,079	84,320
1939.....	3,055	176,965	142,021	155,870		106,195	280,032	(NA)
1929.....	4,179	171,734	140,674	158,774		110,435	294,649	
1919.....	4,608	135,263	125,503	122,578		100,146	251,098	
1909.....	4,792	112,895	43,867	104,588		34,805	85,893	
1899.....	3,015	87,151	23,162	83,336		19,958	45,176	
Florida:								
1954 <sup>1</sup> .....	4,792	123,368	385,291	97,338	198,489	270,749	797,721	104,631
1953 <sup>2</sup> .....	(NA)	103,973	280,095	84,928	173,080	201,322	568,572	56,122
1952 <sup>2</sup> .....		90,270	221,859	72,937	150,243	143,282	365,408	(NA)
1951 <sup>2</sup> .....		83,691	202,366	67,236	141,170	128,239	349,976	(NA)
1950 <sup>2</sup> .....		78,665	168,817	66,027				
1947.....		2,807						
1939.....	1,976	62,616	55,355	51,149	(NA)	36,847	115,885	(NA)
1929.....	2,212	71,345	68,651	64,868		54,582	135,488	
1919.....	2,503	80,086	77,932	74,156		67,136	120,151	
1909.....	2,159	62,098	27,937	57,473		22,982	46,761	
1899.....	1,275	37,252	12,216	35,471		10,916	21,336	

See footnotes at end of table.



## GENERAL SUMMARY

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Table 4B.—GENERAL STATISTICS FOR ALL OPERATING MANUFACTURING ESTABLISHMENTS BY DIVISIONS, STATES, AND STANDARD METROPOLITAN AREAS:  
1954 AND EARLIER YEARS—Continued

(For explanation of column captions see Introduction)

Division, State, Standard Metropolitan Area, and Year	Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)		
East South Central:								
1954 <sup>1</sup> .....	12,854	714,758	2,288,840	601,493	1,166,807	1,713,827	4,701,863	395,995
1953 <sup>2</sup> .....		737,892	2,329,018	632,278	1,237,120	1,808,919	4,666,926	388,260
1952 <sup>2</sup> .....		689,973	2,038,558	592,577	1,152,264	1,576,129	4,038,423	309,568
1951 <sup>2</sup> .....	(NA)	674,266	1,855,321	585,640	1,128,130	1,460,885	3,911,625	310,505
1950 <sup>2</sup> .....		640,233	1,617,376	556,895	1,079,780	1,283,881	3,452,683	
1949 <sup>2</sup> .....		594,336	1,407,008	516,070	1,004,131	1,109,491	2,839,430	(NA)
1947.....	10,911	635,445	1,363,617	559,827		1,096,474	2,884,391	256,002
1939.....	7,024	410,008	389,733	355,096		288,656	823,101	
1929.....	9,860	416,905	440,520	377,870	(NA)	348,734	924,428	
1919.....	14,094	364,878	367,639	327,352		296,470	660,223	(NA)
1909.....	15,381	288,257	131,200	261,772		102,192	294,325	
1899.....	10,058	188,412	66,388	177,208		56,004	148,579	
Kentucky:								
1954 <sup>1</sup> .....	2,651	146,434	529,206	119,218	233,719	383,945	1,236,260	124,037
1953 <sup>2</sup> .....		148,977	524,492	124,405	244,876	397,182	1,213,002	103,141
1952 <sup>2</sup> .....		143,599	469,382	120,462	237,204	353,645	1,078,041	76,003
1951 <sup>2</sup> .....	(NA)	145,709	457,580	122,983	244,676	349,158	1,093,896	77,243
1950 <sup>2</sup> .....		136,727	385,478	116,333	228,281	296,840	957,640	
1949 <sup>2</sup> .....		123,711	331,713	103,847	204,808	250,085	799,482	(NA)
1947.....	2,245	129,553	304,782	110,648		236,085	743,322	77,135
1939.....	1,582	76,504	89,004	62,481		61,592	186,485	
1929.....	2,246	88,583	113,623	77,825	(NA)	88,644	236,080	
1919.....	3,767	79,261	85,845	68,726		66,261	158,498	(NA)
1909.....	4,776	74,010	37,491	65,400		27,888	111,975	
1899.....	3,648	56,091	22,639	51,735		18,454	59,102	
Tennessee:								
1954 <sup>1</sup> .....	4,058	260,599	850,175	214,027	418,378	612,461	1,678,786	152,700
1953 <sup>2</sup> .....		272,617	891,674	228,422	452,532	666,619	1,685,237	156,438
1952 <sup>2</sup> .....		258,279	788,677	216,164	429,463	585,140	1,469,462	102,586
1951 <sup>2</sup> .....	(NA)	237,604	656,204	203,826	393,845	503,702	1,294,384	105,227
1950 <sup>2</sup> .....		222,990	576,346	192,368	374,784	446,577	1,174,446	
1949 <sup>2</sup> .....		213,090	507,329	183,631	364,950	400,571	981,069	(NA)
1947.....	3,345	222,300	474,978	193,197		371,637	961,385	83,792
1939.....	2,225	152,179	149,525	131,024		108,828	318,378	
1929.....	2,855	142,020	149,080	128,400	(NA)	115,877	322,898	
1919.....	4,426	107,725	105,861	94,564		80,687	210,201	(NA)
1909.....	4,609	82,257	37,438	73,840		28,252	76,201	
1899.....	3,116	49,292	17,775	45,963		14,728	38,190	
Alabama:								
1954 <sup>1</sup> .....	3,893	217,084	672,109	188,414	357,780	528,618	1,319,192	82,248
1953 <sup>2</sup> .....		223,139	675,265	197,217	380,367	550,894	1,311,436	98,571
1952 <sup>2</sup> .....		209,197	593,046	186,063	352,815	486,438	1,139,198	101,580
1951 <sup>2</sup> .....	(NA)	211,950	572,961	188,999	357,807	473,499	1,192,019	89,042
1950 <sup>2</sup> .....		207,544	511,374	183,741	357,166	425,467	1,039,831	
1949 <sup>2</sup> .....		190,261	449,154	169,443	321,350	363,597	836,916	(NA)
1947.....	3,336	206,239	444,887	185,700		372,510	877,416	72,362
1939.....	1,982	129,261	114,706	115,698		91,106	245,577	
1929.....	2,848	130,034	126,390	119,559	(NA)	102,005	258,125	
1919.....	3,522	116,440	116,974	106,679		98,482	190,965	(NA)
1909.....	3,398	78,203	33,849	72,148		27,284	62,519	
1899.....	2,000	54,970	16,971	52,711		14,912	34,112	
Mississippi:								
1954 <sup>1</sup> .....	2,252	90,641	237,350	79,834	156,930	188,803	467,625	37,008
1953 <sup>2</sup> .....		93,159	237,587	82,234	159,345	194,224	457,251	30,110
1952 <sup>2</sup> .....		78,898	187,453	69,888	132,782	150,906	351,722	29,399
1951 <sup>2</sup> .....	(NA)	79,003	168,576	69,832	131,802	134,526	331,326	38,993
1950 <sup>2</sup> .....		72,972	144,178	64,453	119,549	114,997	280,766	
1949 <sup>2</sup> .....		67,274	118,812	59,149	113,023	95,238	221,963	(NA)
1947.....	1,985	77,353	138,970	70,282		116,242	302,268	22,713
1939.....	1,235	52,064	36,498	45,893		27,130	72,661	
1929.....	1,911	56,268	51,427	52,086	(NA)	42,208	107,325	
1919.....	2,379	61,452	58,959	57,383		51,040	100,559	(NA)
1909.....	2,598	53,787	22,422	50,384		18,768	43,630	
1899.....	1,294	28,059	9,003	26,799		7,910	17,175	
West South Central:								
1954 <sup>1</sup> .....	16,469	713,365	2,678,359	556,370	1,128,594	1,868,084	5,721,035	721,066
1953 <sup>2</sup> .....		716,645	2,599,284	569,839	1,166,989	1,889,694	5,646,834	754,766
1952 <sup>2</sup> .....		662,136	2,291,581	534,757	1,111,965	1,680,018	5,186,213	880,616
1951 <sup>2</sup> .....	(NA)	635,856	2,023,686	520,007	1,065,598	1,497,745	4,809,571	610,952
1950 <sup>2</sup> .....		585,924	1,669,811	469,090	974,187	1,227,347	3,849,399	
1949 <sup>2</sup> .....		556,462	1,515,529	445,671	915,414	1,092,324	3,069,647	(NA)
1947.....	13,183	550,760	1,334,116	456,641		996,258	3,030,203	457,920
1939.....	9,509	330,516	362,542	258,882		234,980	815,276	
1929.....	10,576	341,079	416,742	297,743	(NA)	316,474	950,463	
1919.....	13,239	323,642	365,389	282,751		290,125	724,099	(NA)
1909.....	12,339	227,958	123,028	204,520		97,646	243,312	
1899.....	7,174	121,643	50,049	113,388		42,715	98,803	

See footnotes at end of table.

## GENERAL SUMMARY

Table 4B.—GENERAL STATISTICS FOR ALL OPERATING MANUFACTURING ESTABLISHMENTS BY DIVISIONS, STATES, AND STANDARD METROPOLITAN AREAS:  
1954 AND EARLIER YEARS—Continued

(For explanation of column captions see Introduction)

Division, State, Standard Metropolitan Area, and Year	Establish- ments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)		
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
West South Central—Continued										
Arkansas:										
1954 <sup>1</sup> .....	2,428	{	78,391	218,473	67,481	134,479	171,109	457,047	42,715	
1953 <sup>2</sup> .....			79,575	215,643	68,126	134,236	171,376	427,209	37,990	
1952 <sup>2</sup> .....			79,702	206,654	69,976	140,763	166,673	396,134	53,286	
1951 <sup>2</sup> .....			(NA)	75,358	179,591	66,757	126,810	143,700	378,979	31,377
1950 <sup>2</sup> .....			72,090	154,558	62,622	121,817	124,006	320,723		
1949 <sup>2</sup> .....			62,252	123,306	54,052	108,040	95,447	241,901	(NA)	
1947.....	1,926		65,802	125,200	58,725	{	102,838	267,516	30,262	
1939.....	1,115		41,183	33,352	35,672		24,205	66,444		
1929.....	1,731		48,747	49,446	44,205		(NA)	39,503	94,255	
1919.....	3,044		54,234	56,207	49,693		46,909	96,953	(NA)	
1909.....	2,925		48,275	22,574	44,982		19,113	39,981		
1899.....	1,746		33,074	11,447	31,525		10,184	21,600		
Louisiana:										
1954 <sup>1</sup> .....	3,020	{	144,757	531,639	114,378	232,019	375,730	1,181,649	174,396	
1953 <sup>2</sup> .....			150,808	526,168	121,987	247,186	386,663	1,179,569	222,344	
1952 <sup>2</sup> .....			134,147	454,370	109,773	222,463	333,540	1,090,597	215,304	
1951 <sup>2</sup> .....			(NA)	134,055	411,177	112,083	219,130	304,155	1,073,822	135,087
1950 <sup>2</sup> .....			123,952	350,751	100,501	202,449	256,447	915,976		
1949 <sup>2</sup> .....			117,246	311,369	95,822	196,134	228,674	713,057	(NA)	
1947.....	2,388		132,463	309,869	111,552	{	229,671	694,062	97,210	
1939.....	1,779		87,770	85,273	70,453		54,454	198,527		
1929.....	1,989		97,551	107,960	87,345		(NA)	83,867	246,497	
1919.....	2,489		109,853	116,718	97,742		93,858	243,886	(NA)	
1909.....	2,516		84,268	42,394	76,165		33,386	89,084		
1899.....	1,826		44,454	17,659	40,878		14,725	35,994		
Oklahoma:										
1954 <sup>1</sup> .....	2,131	{	79,851	307,902	60,572	122,530	212,183	580,633	51,740	
1953 <sup>2</sup> .....			77,455	291,280	60,089	123,859	209,819	553,816	57,270	
1952 <sup>2</sup> .....			72,172	243,191	57,718	117,320	178,588	493,379	38,272	
1951 <sup>2</sup> .....			(NA)	64,072	205,779	51,244	105,100	150,809	433,706	31,939
1950 <sup>2</sup> .....			58,062	163,185	45,271	92,275	126,065	344,037		
1949 <sup>2</sup> .....			57,365	158,585	45,690	92,434	116,765	300,775	(NA)	
1947.....	1,740		55,441	143,634	44,349	{	105,327	341,149	25,504	
1939.....	1,530		37,585	47,170	27,642		29,957	101,782		
1929.....	1,658		38,638	57,604	31,695		(NA)	41,277	149,404	
1919.....	2,316		35,445	46,234	29,048		34,423	87,551	(NA)	
1909.....	2,310		15,336	9,285	13,143		7,240	19,530		
1899.....	495		2,650	1,113	2,381		894	2,703		
Texas:										
1954 <sup>1</sup> .....	8,890	{	410,364	1,620,344	313,938	639,565	1,109,061	3,501,706	452,214	
1953 <sup>2</sup> .....			408,807	1,566,193	319,637	661,708	1,121,836	3,486,240	437,162	
1952 <sup>2</sup> .....			376,115	1,387,366	297,290	631,419	1,001,217	3,206,103	573,754	
1951 <sup>2</sup> .....			(NA)	362,371	1,227,139	289,923	614,558	899,081	2,923,064	412,549
1950 <sup>2</sup> .....			331,820	1,001,317	260,696	557,646	720,829	2,268,663		
1949 <sup>2</sup> .....			319,599	922,269	250,107	518,806	651,438	1,813,914	(NA)	
1947.....	7,129		297,054	755,413	242,015	{	558,422	1,727,476	304,944	
1939.....	5,085		163,978	196,747	125,115		126,364	448,523		
1929.....	5,198		156,143	201,732	134,498		(NA)	151,827	460,307	
1919.....	5,390		124,110	146,230	106,268		114,935	295,709	(NA)	
1909.....	4,588		80,079	48,775	70,230		37,907	94,717		
1899.....	3,107		41,465	19,830	38,604		16,912	38,506		
Mountain:										
1954 <sup>1</sup> .....	6,685	{	187,493	749,586	144,101	286,848	532,152	1,505,145	126,844	
1953 <sup>2</sup> .....			183,925	728,013	145,090	292,492	537,725	1,501,645	111,330	
1952 <sup>2</sup> .....			172,878	644,895	137,194	279,878	482,035	1,269,597	119,631	
1951 <sup>2</sup> .....			(NA)	164,736	577,878	133,435	271,407	439,031	1,257,762	107,858
1950 <sup>2</sup> .....			154,709	475,231	122,809	247,670	354,347	1,042,063		
1949 <sup>2</sup> .....			142,600	422,955	114,427	231,750	315,573	782,868	(NA)	
1947.....	5,044		140,477	375,900	115,144	{	290,285	783,771	95,023	
1939.....	3,987		89,409	119,074	67,011		79,099	269,381		
1929.....	4,319		118,778	181,403	102,492		(NA)	144,486	370,056	
1919.....	6,675		122,668	169,004	105,794		137,075	303,751	(NA)	
1909.....	5,254		85,013	69,392	75,435		56,870	135,304		
1899.....	3,146		47,983	31,610	44,497		27,714	76,220		
Montana:										
1954 <sup>1</sup> .....	868	{	18,373	71,289	14,677	27,762	54,098	141,234	20,574	
1953 <sup>2</sup> .....			17,691	71,599	14,683	28,395	56,937	142,045	22,572	
1952 <sup>2</sup> .....			17,295	66,610	14,190	28,624	53,007	138,952	10,958	
1951 <sup>2</sup> .....			(NA)	17,102	60,952	14,226	28,192	48,828	149,776	(S)
1950 <sup>2</sup> .....			16,645	51,942	13,614	26,314	40,842	107,837		
1949 <sup>2</sup> .....			16,057	47,316	13,457	25,614	36,983	82,180	(NA)	
1947.....	650		15,838	42,770	13,380	{	34,791	90,845	7,446	
1939.....	552		11,939	17,286	8,802		11,697	38,828		
1929.....	589		17,135	29,470	14,869		(NA)	24,215	61,249	
1919.....	1,235		18,893	28,623	16,640		23,968	43,079	(NA)	
1909.....	677		13,035	12,955	11,655		10,901	24,092		
1899.....	395		10,362	8,163	9,854		7,377	22,677		

See footnotes at end of table.



## GENERAL SUMMARY

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Table 4B.—GENERAL STATISTICS FOR ALL OPERATING MANUFACTURING ESTABLISHMENTS BY DIVISIONS, STATES, AND STANDARD METROPOLITAN AREAS:  
1954 AND EARLIER YEARS—Continued

(For explanation of column captions see Introduction)

Division, State, Standard Metropolitan Area, and Year	Establish- ments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)	
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
Mountain—Continued									
Idaho:									
1954 <sup>1</sup> .....	981	23,722	89,507	20,266	39,442	72,159	182,276	20,627	
1953 <sup>2</sup> .....	(NA)	23,218	86,173	19,558	39,143	70,238	166,904	16,818	
1952 <sup>2</sup> .....		19,623	81,149	17,917	37,059	68,429	142,553	24,861	
1951 <sup>2</sup> .....		19,313	76,821	18,784	38,836	66,464	147,853	(S)	
1950 <sup>2</sup> .....		15,815	56,784	14,562	30,457	46,542	118,675	(NA)	
1949 <sup>2</sup> .....		15,250	50,082	13,901	29,247	43,216	91,702		
1947.....		664	16,907	45,748	14,602	(NA)	37,904	109,694	11,447
1939.....	498	11,719	14,697	9,854	11,490		29,788		
1929.....	562	17,023	25,488	15,648	22,452		44,489		
1919.....	803	15,022	20,639	13,575	18,014		35,659	(NA)	
1909.....	725	9,078	6,482	8,220	5,498		12,480		
1899.....	287	1,644	884	1,552	818		1,563		
Wyoming:									
1954 <sup>1</sup> .....	328	6,228	26,774	4,587	9,160	18,777	51,361	6,899	
1953 <sup>2</sup> .....	(NA)	6,981	32,293	5,516	11,018	23,233	54,099	14,423	
1952 <sup>2</sup> .....		5,469	23,806	4,241	9,032	17,346	38,094	15,142	
1951 <sup>2</sup> .....		5,874	21,709	4,938	8,632	16,429	37,245	6,098	
1950 <sup>2</sup> .....		7,082	22,734	6,083	10,974	18,308	37,739	(NA)	
1949 <sup>2</sup> .....		6,233	20,353	5,152	9,902	16,349	29,513		
1947.....		256	5,607	16,696	4,285	(NA)	12,291	34,957	10,235
1939.....	300	4,416	6,641	3,351	4,613		15,336		
1929.....	248	7,154	12,544	6,258	10,255		33,628		
1919.....	437	7,108	12,227	6,271	10,587		38,142	(NA)	
1909.....	268	3,130	2,392	2,867	2,081		3,641		
1899.....	139	2,147	1,300	2,060	1,209		1,899		
Colorado:									
1954 <sup>1</sup> .....	2,069	63,041	247,110	47,941	95,782	172,995	472,433	30,121	
1953 <sup>2</sup> .....	(NA)	58,864	230,377	46,269	93,841	167,807	438,466	26,583	
1952 <sup>2</sup> .....		58,577	209,178	45,450	89,951	150,500	397,464	34,183	
1951 <sup>2</sup> .....		57,344	191,358	44,340	89,258	139,252	393,899	31,141	
1950 <sup>2</sup> .....		55,657	161,773	42,959	84,415	116,176	340,795	(NA)	
1949 <sup>2</sup> .....		49,565	145,271	38,897	80,012	103,237	278,626		
1947.....		1,602	54,071	144,207	44,153	(NA)	109,734	286,774	32,189
1939.....	1,219	32,234	43,953	23,388	28,038		90,330		
1929.....	1,548	39,113	57,221	32,890	43,640		122,331		
1919.....	2,230	40,786	53,770	33,759	41,020		97,195	(NA)	
1909.....	2,034	32,393	25,560	28,067	19,912		49,553		
1899.....	1,323	21,368	13,766	19,498	11,708		28,317		
New Mexico:									
1954 <sup>1</sup> .....	593	14,955	62,213	9,380	18,518	32,635	126,326	6,585	
1953 <sup>2</sup> .....	(NA)	12,737	57,479	10,350	22,148	39,391	129,248	3,932	
1952 <sup>2</sup> .....		15,364	60,515	12,175	24,407	44,348	128,211	4,773	
1951 <sup>2</sup> .....		14,721	50,423	11,041	20,690	35,726	121,633	5,060	
1950 <sup>2</sup> .....		13,514	38,950	10,755	20,360	27,832	102,897	(NA)	
1949 <sup>2</sup> .....		8,740	24,454	7,794	14,937	20,850	51,694		
1947.....		431	6,696	14,964	5,530	(NA)	11,438	32,136	5,431
1939.....	262	4,107	4,182	3,219	2,875		8,640		
1929.....	250	5,070	6,831	4,476	5,565		11,278		
1919.....	387	6,310	7,686	5,736	6,658		10,129	(NA)	
1909.....	313	4,478	2,974	4,143	2,591		4,637		
1899.....	174	2,578	1,290	2,490	1,199		2,062		
Arizona:									
1954 <sup>1</sup> .....	817	26,090	109,868	20,267	42,319	80,563	192,497	13,800	
1953 <sup>2</sup> .....	(NA)	23,565	97,778	17,113	36,548	69,368	231,128	7,199	
1952 <sup>2</sup> .....		20,968	79,103	15,908	33,885	58,322	159,753	11,193	
1951 <sup>2</sup> .....		17,415	60,831	14,018	29,886	47,683	156,762	9,483	
1950 <sup>2</sup> .....		14,695	49,621	11,470	25,377	35,744	127,946	(NA)	
1949 <sup>2</sup> .....		14,252	43,947	10,229	23,810	30,466	91,681		
1947.....		544	14,188	39,333	11,167	(NA)	29,680	83,829	8,328
1939.....	313	7,996	10,988	5,905	6,955		31,625		
1929.....	348	12,209	19,343	10,550	15,075		32,289		
1919.....	399	9,652	14,725	8,297	11,658		27,478	(NA)	
1909.....	311	6,941	6,303	6,441	5,505		16,656		
1899.....	154	3,331	2,557	3,126	2,287		12,562		
Utah:									
1954 <sup>1</sup> .....	852	29,364	117,520	22,553	44,790	82,442	276,343	23,385	
1953 <sup>2</sup> .....	(NA)	34,344	123,290	26,878	51,506	89,860	272,449	15,009	
1952 <sup>2</sup> .....		32,245	110,853	25,045	51,737	81,513	229,876	17,076	
1951 <sup>2</sup> .....		30,061	105,273	24,263	51,483	77,886	223,221	25,057	
1950 <sup>2</sup> .....		28,445	82,443	21,868	46,442	62,706	177,504	(NA)	
1949 <sup>2</sup> .....		29,296	80,670	22,849	42,759	57,057	138,268		
1947.....		771	24,503	63,773	19,963	(NA)	48,031	128,250	16,988
1939.....	549	15,537	18,970	11,467	11,873		43,341		
1929.....	651	18,510	26,107	15,601	19,699		56,727		
1919.....	1,035	21,526	26,524	18,442	20,931		45,831	(NA)	
1909.....	749	13,445	10,366	11,785	8,400		20,724		
1899.....	575	6,012	3,263	5,413	2,763		6,541		

See footnotes at end of table.

## GENERAL SUMMARY

Table 4B.—GENERAL STATISTICS FOR ALL OPERATING MANUFACTURING ESTABLISHMENTS BY DIVISIONS, STATES, AND STANDARD METROPOLITAN AREAS:  
1954 AND EARLIER YEARS—Continued

(For explanation of column captions see Introduction)

Division, State, Standard Metropolitan Area, and Year	Establish- ments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)		
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
Mountain—Continued										
Nevada:										
1954 <sup>1</sup> .....	177	5,717	25,301	4,426	9,074	18,480	62,672	4,850		
1953 <sup>2</sup> .....	(NA)	6,525	29,024	4,723	9,893	20,891	67,306	4,794		
1952 <sup>2</sup> .....		3,337	13,681	2,268	5,183	8,570	34,694	(S)		
1951 <sup>2</sup> .....		2,906	10,511	1,825	4,430	6,763	27,373	1,774		
1950 <sup>2</sup> .....		2,856	10,984	1,498	3,331	6,197	28,670	(NA)		
1949 <sup>2</sup> .....		3,207	10,862	2,148	5,469	7,415	19,204			
1947.....	126	2,667	8,409	2,064	(NA)	6,416	17,286	2,959		
1939.....	94	1,461	2,357	1,025		1,558	11,493	(NA)		
1929.....	123	2,564	4,399	2,200		3,585	8,065			
1919.....	149	3,371	4,810	3,074		4,239	6,238			
1909.....	177	2,513	2,360	2,257		1,982	3,521			
1899.....	99	541	387	504		353	599			
Pacific:										
1954 <sup>1</sup> .....	35,308	1,354,481	6,047,958	1,035,020	2,027,074	4,186,203	11,183,970	764,743		
1953 <sup>2</sup> .....	(NA)	1,358,954	5,964,162	1,062,786	2,108,957	4,266,681	10,620,983	662,876		
1952 <sup>2</sup> .....		1,260,175	5,236,957	992,056	1,966,435	3,796,655	9,459,239	662,170		
1951 <sup>2</sup> .....		1,160,329	4,529,402	920,344	1,826,938	3,311,189	8,423,245	680,178		
1950 <sup>2</sup> .....		1,018,087	3,575,727	804,465	1,577,647	2,598,278	7,041,285	(NA)		
1949 <sup>2</sup> .....		923,120	3,115,634	733,692	1,429,295	2,249,729	5,727,800			
1947.....	24,132	913,715	2,820,152	745,869	(NA)	2,139,537	5,544,019	553,678		
1939.....	16,319	523,439	764,247	411,038		536,528	1,546,957	(NA)		
1929.....	18,154	555,534	909,964	471,246		670,599	1,922,882			
1919.....	17,116	485,308	685,090	426,005		568,266	1,263,163			
1909.....	13,579	242,576	190,638	213,166		153,809	349,833			
1899.....	8,329	133,329	74,558	123,206		63,777	140,849			
Washington:										
1954 <sup>1</sup> .....	4,929	192,354	842,660	148,759	280,777	594,668	1,549,060	147,130		
1953 <sup>2</sup> .....	(NA)	188,708	814,495	151,903	290,379	614,962	1,482,007	95,432		
1952 <sup>2</sup> .....		199,559	806,575	163,783	308,801	625,611	1,445,293	140,488		
1951 <sup>2</sup> .....		192,081	753,834	159,585	304,081	590,253	1,343,983	94,829		
1950 <sup>2</sup> .....		161,047	560,249	133,809	256,465	439,206	1,113,362	(NA)		
1949 <sup>2</sup> .....		156,399	512,987	129,746	246,410	396,433	926,630			
1947.....	3,409	144,252	437,802	123,442	(NA)	354,445	874,021	114,450		
1939.....	2,858	99,119	142,565	82,261		108,220	267,716	(NA)		
1929.....	3,672	128,740	196,575	114,830		160,671	367,149			
1919.....	4,356	144,331	222,482	131,241		192,473	361,907			
1909.....	3,674	76,854	59,593	69,120		49,766	102,859			
1899.....	1,926	33,626	19,129	31,523		17,065	32,554			
Oregon:										
1954 <sup>1</sup> .....	5,870	134,343	561,580	114,464	214,740	447,741	1,037,456	67,811		
1953 <sup>2</sup> .....	(NA)	131,365	550,555	112,887	213,857	448,287	985,834	63,377		
1952 <sup>2</sup> .....		136,589	539,818	119,267	222,662	450,663	1,049,151	80,154		
1951 <sup>2</sup> .....		131,750	496,085	114,710	215,523	411,621	945,875	106,364		
1950 <sup>2</sup> .....		118,722	406,472	101,997	195,181	333,176	806,947	(NA)		
1949 <sup>2</sup> .....		111,060	362,300	96,634	182,819	297,843	633,136			
1947.....	3,075	105,591	317,827	92,144	(NA)	265,837	675,017	61,669		
1939.....	1,903	67,222	87,938	57,487		69,574	156,696	(NA)		
1929.....	2,463	73,865	106,242	65,505		86,829	206,542			
1919.....	2,478	64,596	93,906	57,832		80,067	158,763			
1909.....	2,246	32,223	23,949	28,750		19,902	42,452			
1899.....	1,406	15,602	8,044	14,459		6,822	15,804			
California:										
1954 <sup>1</sup> .....	24,509	1,027,784	4,643,717	771,796	1,531,557	3,143,793	8,597,453	549,801		
1953 <sup>2</sup> .....	(NA)	1,038,881	4,599,112	797,996	1,604,721	3,203,432	8,153,142	504,067		
1952 <sup>2</sup> .....		924,027	3,890,564	709,006	1,434,972	2,720,381	6,964,795	441,528		
1951 <sup>2</sup> .....		836,498	3,279,483	646,049	1,307,334	2,309,315	6,133,387	478,985		
1950 <sup>2</sup> .....		738,318	2,609,006	568,659	1,126,001	1,825,896	5,120,976	(NA)		
1949 <sup>2</sup> .....		655,661	2,240,347	507,312	1,000,066	1,555,453	4,168,034			
1947.....	17,648	663,872	2,064,523	530,283	(NA)	1,519,255	3,994,981	410,533		
1939.....	11,558	357,098	533,744	271,290		358,734	1,122,545	(NA)		
1929.....	12,019	352,929	607,147	290,911		423,099	1,349,191			
1919.....	10,282	276,381	368,702	236,932		295,726	742,493			
1909.....	7,659	133,499	107,096	115,296		84,141	204,522			
1899.....	4,997	84,101	47,385	77,224		39,890	92,491			
STANDARD METROPOLITAN AREAS <sup>3</sup>										
Akron:										
1954 <sup>1</sup> .....	669	85,905	389,094	63,170	114,746	259,900	619,497	33,909		
1947.....	482	94,011	284,302	75,289	(NA)	215,444	460,327	28,744		
1939.....	324	52,602	96,759	40,114		65,463	166,444	(NA)		
1929.....	353	77,093	132,202	66,871		106,477	280,546			
1919.....	405	(NA)	(NA)	71,050		102,708	261,175			
Albany-Schenectady-Troy:										
1954 <sup>1</sup> .....	675	71,981	323,518	51,177	101,649	205,508	584,708	2,583		
1947.....	601	71,388	203,664	55,536	(NA)	147,056	324,346	(NA)		
1939.....	537	45,899	68,698	36,217		45,981	126,192			
1929.....	677	67,852	105,244	58,771		83,033	178,252			
1919.....	405	(NA)	(NA)	71,050		102,708	261,175			

See footnotes at end of table.



Table 4B.—GENERAL STATISTICS FOR ALL OPERATING MANUFACTURING ESTABLISHMENTS BY DIVISIONS, STATES, AND STANDARD METROPOLITAN AREAS:  
1954 AND EARLIER YEARS—Continued

(For explanation of column captions see Introduction)

Division, State, Standard Metropolitan Area, and Year	Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)		
STANDARD METROPOLITAN AREAS <sup>3</sup> —Continued								
Alienstown-Bethlehem-Easton:								
1954 <sup>1</sup> .....	1,007	90,265	323,179	74,271	140,359	239,744	593,489	43,417
1947.....	898	88,614	222,372	76,351	(NA)	177,547	360,669	31,766
1939.....	662	67,583	80,781	59,181		62,891	158,236	(NA)
1929.....	783	72,461	107,132	64,919		86,508	216,477	
1919.....	1,169	(NA)	(NA)	64,972		72,379	180,335	
Atlanta:								
1954 <sup>1</sup> .....	1,088	78,500	287,673	61,083	121,790	192,992	552,009	24,684
1947.....	871	49,030	112,164	40,543	(NA)	81,071	237,448	29,448
1939.....	620	31,166	32,302	27,692		24,515	81,663	(NA)
1929.....	625	31,473	37,060	26,554		24,878	94,108	
1919.....	676	(NA)	(NA)	22,362		21,482	60,993	
Baltimore:								
1954 <sup>1</sup> .....	1,909	188,689	780,813	142,982	282,284	526,305	1,547,473	75,174
1947.....	1,786	170,164	482,904	138,967	(NA)	359,378	900,367	101,913
1939.....	1,885	126,197	171,515	105,786		126,959	342,465	(NA)
1929.....	2,225	110,313	148,187	94,562		110,692	327,520	
1919.....	2,967	(NA)	(NA)	113,068		123,529	277,655	
Binghamton:								
1954 <sup>1</sup> .....	289	40,502	159,561	32,523	60,697	112,853	268,720	15,213
1947.....	(NA)	35,769	(NA)	(NA)	(NA)	(NA)	159,879	(NA)
Birmingham:								
1954 <sup>1</sup> .....	605	57,762	236,624	46,169	89,227	170,682	481,580	31,518
1947.....	529	53,359	138,011	44,767	(NA)	106,659	275,630	29,059
1939.....	374	31,988	40,440	28,774		33,000	105,409	(NA)
1929.....	419	36,319	49,542	31,544		37,924	111,211	
1919.....	440	(NA)	(NA)	28,909		33,009	62,540	
Boston:								
1954 <sup>1</sup> .....	5,474	280,274	1,106,467	211,005	413,125	730,571	1,972,147	68,241
1947.....	5,393	270,932	750,519	215,046	(NA)	530,140	1,377,383	72,932
1939.....	4,378	192,556	273,028	157,230		187,431	508,099	(NA)
Bridgeport:								
1954 <sup>1</sup> .....	725	64,873	279,486	49,577	98,422	193,654	509,938	17,858
1947.....	584	70,150	203,458	56,033	(NA)	151,709	341,702	19,254
1939.....	422	39,779	55,305	34,348		41,594	104,596	(NA)
Buffalo:								
1954 <sup>1</sup> .....	1,829	200,801	933,873	152,882	306,577	655,297	1,677,778	139,477
1947.....	1,693	183,876	557,384	149,758	(NA)	424,928	1,023,231	90,261
1939.....	1,356	115,589	183,753	90,244		125,565	391,785	(NA)
1929.....	1,896	128,704	212,117	108,966		160,766	480,123	
1919.....	2,913	(NA)	(NA)	116,633		152,180	346,627	
Canton:								
1954 <sup>1</sup> .....	456	56,762	247,442	45,351	86,705	184,284	449,371	19,083
1947.....	385	55,564	158,649	47,600	(NA)	128,551	280,241	15,224
1939.....	323	32,342	50,343	28,854		42,061	107,807	(NA)
1929.....	338	36,834	67,456	32,202		54,735	142,508	
1919.....	584	(NA)	(NA)	34,182		47,876	108,670	
Chattanooga:								
1954 <sup>1</sup> .....	410	42,759	143,569	35,724	69,907	107,515	277,314	33,496
1947.....	(NA)	38,193	(NA)	(NA)	(NA)	(NA)	149,104	(NA)
Chicago:								
1954 <sup>1</sup> .....	13,456	942,819	4,256,393	718,642	1,419,045	2,897,563	7,893,423	427,396
1947.....	12,285	946,041	2,995,636	756,275	(NA)	2,177,440	5,529,227	421,083
1939.....	9,058	609,940	941,363	478,126		632,529	1,896,111	(NA)
1929.....	11,693	636,464	1,137,863	527,677		830,322	2,477,970	
1919.....	12,399	(NA)	(NA)	520,133		677,239	1,670,150	
Cincinnati:								
1954 <sup>1</sup> .....	1,814	151,317	673,358	111,515	227,922	438,570	1,318,668	73,023
1947.....	1,688	134,549	379,993	107,364	(NA)	272,127	775,391	48,336
1939.....	1,521	83,466	119,166	72,401		90,159	268,017	(NA)
1929.....	2,189	108,088	167,392	90,468		121,721	359,625	
1919.....	2,721	(NA)	(NA)	97,166		98,908	284,555	
Cleveland:								
1954 <sup>1</sup> .....	3,744	291,037	1,376,234	222,511	442,641	944,975	2,401,375	217,825
1947.....	3,252	268,232	865,662	218,494	(NA)	644,686	1,543,911	91,864
1939.....	2,441	150,854	240,879	129,358		183,314	504,992	(NA)
1929.....	2,829	191,612	336,550	164,793		257,664	690,275	
1919.....	3,182	(NA)	(NA)	169,813		228,927	518,009	
Columbus (Ohio):								
1954 <sup>1</sup> .....	792	72,936	314,521	51,934	105,055	204,464	581,383	34,731
1947.....	680	54,925	153,551	42,405	(NA)	105,436	277,964	17,741
1939.....	500	29,380	39,631	25,309		29,658	90,049	(NA)
1929.....	624	32,603	50,730	27,562		36,911	111,403	
1919.....	774	(NA)	(NA)	31,573		37,447	82,882	

See footnotes at end of table.

Table 4B.—GENERAL STATISTICS FOR ALL OPERATING MANUFACTURING ESTABLISHMENTS BY DIVISIONS, STATES, AND STANDARD METROPOLITAN AREAS:  
1954 AND EARLIER YEARS—Continued

(For explanation of column captions see Introduction)

Division, State, Standard Metropolitan Area, and Year	Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)		
STANDARD METROPOLITAN AREAS <sup>3</sup> —Continued								
Dallas:								
1954 <sup>1</sup> .....	1,369	72,770	290,812	52,757	107,581	181,510	508,271	20,021
1947.....	(NA)	38,828	(NA)	(NA)	(NA)	(NA)	238,839	(NA)
Dayton:								
1954 <sup>1</sup> .....	770	97,117	463,019	78,375	157,717	350,009	747,419	48,741
1947.....	638	95,347	308,299	79,433	(NA)	240,266	496,380	40,150
1939.....	481	50,532	84,491	40,200		60,874	164,963	(NA)
1929.....	555	51,874	87,605	43,778		66,085	216,284	
1919.....	734	(NA)	(NA)	34,331		42,916	103,170	
Denver:								
1954 <sup>1</sup> .....	1,060	40,774	167,289	29,696	60,466	110,874	313,644	17,953
1947.....	(NA)	34,288	(NA)	(NA)	(NA)	(NA)	183,713	12,100
Detroit:								
1954 <sup>1</sup> .....	6,159	538,223	2,773,349	434,365	881,589	2,073,287	4,713,167	480,818
1947.....	4,761	557,241	1,852,316	468,170	(NA)	1,457,651	2,912,660	238,738
1939.....	2,684	372,882	655,102	315,221		517,849	1,087,575	(NA)
1929.....	2,844	328,414	626,246	290,980		507,375	1,216,159	
1919.....	2,634	(NA)	(NA)	264,961		402,488	958,755	
Erie:								
1954 <sup>1</sup> .....	422	40,488	171,969	31,786	62,089	122,133	286,397	13,882
1947.....	368	46,285	134,693	38,076	(NA)	103,640	224,906	17,815
1939.....	296	22,974	33,380	19,216		24,985	72,110	(NA)
1929.....	366	27,352	45,082	23,022		33,568	91,258	
1919.....	455	(NA)	(NA)	22,944		28,930	70,441	
Fall River: <sup>4</sup>								
1954 <sup>1</sup> .....	343	26,990	73,942	24,650	44,276	61,535	111,675	3,702
Flint:								
1954 <sup>1</sup> .....	286	75,410	387,681	53,979	137,996	316,466	713,846	149,069
1947.....	213	54,774	170,845	47,521	(NA)	140,170	323,205	29,579
1939.....	134	36,878	68,734	33,072		59,244	133,499	(NA)
1929.....	136	35,843	62,606	32,001		52,642	142,654	
1919.....	151	(NA)	(NA)	24,884		38,589	103,901	
Fort Worth:								
1954 <sup>1</sup> .....	601	48,367	211,122	37,308	73,993	148,799	368,152	16,527
1947.....	(NA)	32,039	(NA)	(NA)	(NA)	(NA)	146,501	(NA)
Grand Rapids:								
1954 <sup>1</sup> .....	776	52,337	244,270	41,221	86,735	177,077	454,194	27,710
1947.....	694	49,241	147,276	41,961	(NA)	114,990	255,255	15,006
1939.....	468	27,155	37,258	23,882		29,168	71,736	(NA)
1929.....	561	35,063	57,548	30,979		44,756	96,706	
1919.....	700	(NA)	(NA)	25,640		28,395	63,336	
Hartford:								
1954 <sup>1</sup> .....	728	76,146	335,065	58,945	121,337	236,367	530,171	21,912
1947.....	583	63,772	189,081	51,999	(NA)	142,650	300,152	18,244
1939.....	415	38,083	59,715	31,588		44,112	118,126	(NA)
Houston:								
1954 <sup>1</sup> .....	1,410	77,756	362,976	57,532	118,601	243,154	868,747	87,235
1947.....	915	58,254	181,794	45,671	(NA)	131,073	384,718	86,841
1939.....	620	27,116	41,566	22,600		30,423	106,608	(NA)
1929.....	475	26,213	37,909	22,131		28,097	93,498	
1919.....	422	(NA)	(NA)	11,411		12,173	31,964	
Indianapolis:								
1954 <sup>1</sup> .....	1,102	102,233	464,243	74,681	150,971	302,764	844,783	48,209
1947.....	943	92,259	278,506	72,827	(NA)	197,989	483,375	43,610
1939.....	784	50,666	73,782	38,705		47,989	138,633	(NA)
1929.....	902	55,504	84,492	46,339		60,158	178,962	
1919.....	1,028	(NA)	(NA)	52,142		55,083	135,701	
Kansas City:								
1954 <sup>1</sup> .....	1,513	115,132	497,764	84,903	168,431	336,026	1,039,592	45,821
1947.....	1,347	78,686	218,970	61,735	(NA)	156,262	469,807	50,037
1939.....	1,023	50,680	73,102	38,085		47,410	147,655	(NA)
1929.....	1,163	54,008	80,401	44,203		57,076	222,620	
1919.....	1,392	(NA)	(NA)	48,546		55,322	129,365	
Lancaster:								
1954 <sup>1</sup> .....	612	42,545	150,619	34,663	68,491	110,273	288,553	16,059
1947.....	(NA)	39,139	(NA)	(NA)	(NA)	(NA)	177,965	(NA)
Los Angeles:								
1954 <sup>1</sup> .....	14,400	639,802	2,936,808	470,732	944,148	1,930,520	5,041,546	305,165
1947.....	9,771	358,722	1,118,344	281,806	(NA)	797,090	2,052,671	175,327
1939.....	5,505	172,757	258,967	127,425		167,133	517,671	(NA)
1929.....	5,029	127,881	210,001	103,652		151,486	505,380	
1919.....	3,721	(NA)	(NA)	63,255		74,291	183,855	

See footnotes at end of table.



Table 4B.—GENERAL STATISTICS FOR ALL OPERATING MANUFACTURING ESTABLISHMENTS BY DIVISIONS, STATES, AND STANDARD METROPOLITAN AREAS:  
1954 AND EARLIER YEARS—Continued

(For explanation of column captions see Introduction)

Division, State, Standard Metropolitan Area, and Year	Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)	
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
STANDARD METROPOLITAN AREAS <sup>3</sup> —Continued									
Louisville:									
1954 <sup>1</sup> .....	814	84,653	354,192	66,502	135,815	252,962	845,031	90,958	
1947.....	744	73,853	193,837	60,878	}	144,248	489,435	59,317	
1939.....	641	39,770	46,757	35,009		(NA)	35,581	128,466	}
1929.....	822	49,459	65,304	42,303		48,399	153,178	(NA)	
1919.....	979	(NA)	(NA)	35,238		34,165	90,721		
Memphis:									
1954 <sup>1</sup> .....	632	41,804	152,582	32,310	65,441	103,324	336,167	31,773	
1947.....	(NA)	36,042	(NA)	(NA)	(NA)	(NA)	202,438	(NA)	
Milwaukee:									
1954 <sup>1</sup> .....	1,979	175,802	809,880	129,608	255,419	538,856	1,439,620	68,648	
1947.....	1,961	178,412	538,797	141,111	}	396,643	972,613	63,942	
1939.....	1,465	94,774	147,996	79,473		(NA)	111,135	287,667	}
1929.....	1,939	141,068	233,200	117,658		170,962	434,038	(NA)	
1919.....	2,247	(NA)	(NA)	106,137		117,674	302,457		
Minneapolis-St. Paul:									
1954 <sup>1</sup> .....	2,246	134,208	582,387	96,346	193,430	374,557	1,081,364	47,303	
1947.....	2,115	118,741	353,403	93,909	}	238,955	713,462	48,897	
1939.....	1,626	65,359	97,870	48,710		(NA)	62,577	203,011	}
1929.....	1,939	71,504	106,045	58,342		73,833	261,080	(NA)	
1919.....	2,389	(NA)	(NA)	67,138		73,866	212,398		
New Bedford: <sup>4</sup>									
1954 <sup>1</sup> .....	291	27,852	83,549	24,135	45,906	65,193	130,298	4,378	
New Britain-Bristol:									
1954 <sup>1</sup> .....	393	43,950	178,017	35,207	68,432	134,555	273,394	15,110	
1947.....	299	45,708	132,524	38,507	}	105,823	205,103	12,277	
1939.....	160	28,408	38,657	23,564		(NA)	28,555	65,681	(NA)
New Haven:									
1954 <sup>1</sup> .....	709	46,566	183,239	36,700	72,021	129,200	298,824	15,615	
1947.....	577	41,503	115,374	34,394	}	86,140	188,528	11,880	
1939.....	459	28,027	33,710	24,528		(NA)	26,244	69,883	(NA)
New Orleans:									
1954 <sup>1</sup> .....	856	53,312	193,617	41,423	81,758	135,236	374,873	64,588	
1947.....	724	45,363	105,210	37,932	}	78,201	222,995	19,306	
1939.....	688	28,679	27,158	25,509		(NA)	19,931	80,810	}
1929.....	851	31,558	35,893	27,065		24,839	94,120	(NA)	
1919.....	923	(NA)	(NA)	30,231		27,935	83,836		
New York-Northeastern									
New Jersey:									
1954 <sup>1</sup> .....	51,403	1,731,977	7,095,016	1,336,116	2,566,509	4,714,688	13,115,922	444,124	
1947.....	48,281	1,598,662	4,919,631	1,269,283	}	3,485,822	9,310,900	421,668	
1939.....	32,132	1,116,708	1,646,817	867,953		(NA)	1,062,156	3,126,135	}
1929.....	36,923	1,110,942	1,988,775	910,870		1,399,940	4,452,465	(NA)	
1919.....	42,293	(NA)	(NA)	1,057,677		1,300,273	3,592,026		
Peoria:									
1954 <sup>1</sup> .....	313	37,779	167,348	30,211	59,984	124,639	362,496	20,934	
1947.....	278	42,511	123,726	34,492	}	94,376	280,670	33,905	
1939.....	265	21,962	34,440	18,875		(NA)	28,023	85,046	}
1929.....	268	18,067	27,840	14,773		20,143	82,024	(NA)	
1919.....	383	(NA)	(NA)	12,304		13,684	42,519		
Philadelphia:									
1954 <sup>1</sup> .....	8,079	547,042	2,291,639	419,932	827,015	1,564,348	4,023,700	275,789	
1947.....	7,394	531,809	1,530,678	436,996	}	1,139,148	2,772,649	203,521	
1939.....	5,756	393,561	555,590	320,627		(NA)	385,782	1,037,292	}
1929.....	7,136	428,914	663,047	367,784		497,430	1,396,529	(NA)	
1919.....	11,673	(NA)	(NA)	465,487		567,866	1,303,034		
Pittsburgh:									
1954 <sup>1</sup> .....	2,381	303,408	1,364,413	239,450	454,510	995,118	2,480,530	164,002	
1947.....	2,227	337,928	1,023,833	283,985	}	807,101	1,704,327	139,524	
1939.....	1,905	229,353	357,044	191,278		(NA)	270,370	640,908	}
1929.....	2,544	248,607	423,336	216,481		338,023	835,162	(NA)	
1919.....	3,796	(NA)	244,991	244,991		366,325	803,556		
Portland (Oregon):									
1954 <sup>1</sup> .....	1,787	56,729	239,997	44,840	85,943	172,036	475,021	27,190	
1947.....	1,298	51,643	153,747	42,675	}	119,893	314,273	36,254	
1939.....	943	28,398	38,224	25,017		(NA)	30,679	79,875	}
1929.....	1,307	38,083	56,783	31,576		42,254	112,605	(NA)	
1919.....	1,129	(NA)	(NA)	38,075		54,862	111,892		
Providence:									
1954 <sup>1</sup> .....	2,741	130,825	453,830	108,791	219,308	330,670	744,286	29,218	
1947.....	2,366	154,971	397,800	134,268	}	313,131	692,204	37,327	
1939.....	1,411	108,620	125,065	95,411		(NA)	95,033	218,331	(NA)

See footnotes at end of table.

## GENERAL SUMMARY

Table 4B.—GENERAL STATISTICS FOR ALL OPERATING MANUFACTURING ESTABLISHMENTS BY DIVISIONS, STATES, AND STANDARD METROPOLITAN AREAS:  
1954 AND EARLIER YEARS—Continued

(For explanation of column captions see Introduction)

Division, State, Standard Metropolitan Area, and Year	Establish- ments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)		
STANDARD METROPOLITAN AREAS <sup>3</sup> —Continued								
Reading:								
1954 <sup>1</sup> .....	669	49,130	167,369	41,468	78,141	126,928	294,269	17,415
1947.....	616	53,024	135,843	46,373	} (NA) {	110,795	230,161	19,063
1939.....	493	46,124	53,975	40,537		41,612	83,782	} (NA)
1929.....	567	47,525	67,817	43,487		56,302	117,936	
1919.....	1,031	(NA)	(NA)	41,072		39,910	81,355	
Rochester:								
1954 <sup>1</sup> .....	979	111,385	508,033	83,246	163,733	338,183	919,779	58,810
1947.....	907	107,493	319,227	85,696	} (NA) {	243,932	514,543	37,011
1939.....	755	67,004	106,494	50,898		70,381	207,730	} (NA)
1929.....	1,044	74,107	119,628	62,239		87,844	247,685	
1919.....	1,536	(NA)	(NA)	67,553		73,332	195,916	
St. Louis:								
1954 <sup>1</sup> .....	3,128	251,766	1,060,335	191,375	373,705	725,307	2,053,083	131,184
1947.....	2,959	244,481	664,597	200,103	} (NA) {	490,880	1,295,842	118,925
1939.....	2,549	162,238	227,865	126,416		151,860	461,772	} (NA)
1929.....	3,258	174,798	259,764	147,449		189,423	609,157	
1919.....	4,011	(NA)	(NA)	154,311		164,281	454,815	
San Diego:								
1954 <sup>1</sup> .....	595	47,731	221,656	37,310	74,405	156,997	390,218	7,986
1947.....	(NA)	20,783	(NA)	(NA)	(NA)	(NA)	101,548	(NA)
San Francisco-Oakland:								
1954 <sup>1</sup> .....	4,106	173,135	793,165	128,746	250,004	539,483	1,673,825	114,955
1947.....	3,670	163,606	526,626	131,127	} (NA) {	393,238	1,048,720	110,699
1939.....	3,213	101,103	165,356	76,044		110,418	361,966	} (NA)
1929.....	3,923	109,119	179,628	89,299		131,461	448,062	
1919.....	3,651	(NA)	(NA)	107,080		140,611	360,185	
Seattle:								
1954 <sup>1</sup> .....	1,447	78,447	354,664	54,931	105,211	220,541	520,928	21,823
1947.....	1,221	54,770	171,221	44,668	} (NA) {	129,910	265,422	14,777
1939.....	1,137	27,734	42,682	23,581		32,971	83,804	} (NA)
1929.....	1,342	34,858	56,609	29,167		41,786	107,252	
1919.....	1,405	(NA)	(NA)	47,474		72,842	141,883	
South Bend:								
1954 <sup>1</sup> .....	330	43,622	201,674	33,025	61,276	140,295	320,106	7,552
1947.....	259	44,139	144,419	37,158	} (NA) {	117,504	234,908	13,617
1939.....	194	24,178	36,930	20,819		29,592	71,555	} (NA)
1929.....	236	35,032	52,915	31,400		43,691	98,430	
1919.....	277	(NA)	(NA)	19,957		23,206	50,606	
Springfield-Holyoke:								
1954 <sup>1</sup> .....	896	74,350	302,543	58,281	115,862	215,158	501,938	27,595
1947.....	831	81,598	233,624	67,366	} (NA) {	177,556	373,118	29,993
1939.....	639	47,525	65,924	38,504		46,090	114,584	(NA)
Syracuse:								
1954.....	568	57,440	242,617	40,630	81,596	157,002	478,545	24,942
1947.....	512	54,563	158,093	43,328	} (NA) {	116,729	275,257	30,057
1939.....	381	29,740	40,898	25,563		31,592	82,777	} (NA)
1929.....	549	41,031	68,360	35,060		52,556	141,615	
1919.....	864	(NA)	(NA)	37,372		43,957	101,577	
Toledo:								
1954 <sup>1</sup> .....	711	61,123	296,607	46,107	89,475	203,835	534,636	30,020
1947.....	628	70,588	224,189	57,600	} (NA) {	169,729	393,578	38,578
1939.....	473	37,958	61,161	30,542		43,505	111,138	} (NA)
1929.....	605	58,330	97,339	51,646		75,941	206,805	
1919.....	714	(NA)	(NA)	44,713		56,910	125,667	
Trenton:								
1954 <sup>1</sup> .....	443	38,289	157,238	30,069	58,629	112,465	302,999	14,903
1947.....	402	40,422	113,283	34,094	} (NA) {	88,389	208,485	17,999
1939.....	318	28,406	36,195	25,287		28,587	72,054	} (NA)
1929.....	346	27,091	40,251	23,721		31,200	79,449	
1919.....	497	(NA)	(NA)	30,515		34,874	78,698	
Utica-Rome:								
1954 <sup>1</sup> .....	503	42,941	168,193	34,003	65,963	122,010	328,206	10,191
1947.....	430	50,975	140,601	44,202	} (NA) {	113,932	232,985	15,933
1939.....	383	35,885	41,632	32,263		33,651	79,945	} (NA)
1929.....	515	43,212	56,829	37,974		43,871	106,355	
1919.....	898	(NA)	(NA)	43,973		45,469	97,553	
Waterbury:								
1954 <sup>1</sup> .....	391	42,186	179,067	33,970	68,261	129,487	307,565	15,648
1947.....	295	43,388	125,719	36,386	} (NA) {	96,557	206,291	13,680
1939.....	180	32,609	44,795	28,537		34,872	81,371	(NA)

See footnotes at end of table.



Table 4B.—GENERAL STATISTICS FOR ALL OPERATING MANUFACTURING ESTABLISHMENTS BY DIVISIONS, STATES, AND STANDARD METROPOLITAN AREAS:  
1954 AND EARLIER YEARS—Continued

(For explanation of column captions see Introduction)

Division, State, Standard Metropolitan Area, and Year	Establish- ments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)		
STANDARD METROPOLITAN AREAS <sup>3</sup> —Continued								
Wheeling-Steubenville:								
1954 <sup>1</sup> .....	385	49,687	205,685	43,603	80,678	170,052	404,133	55,112
1947.....	343	51,751	147,020	46,484	(NA)	125,513	259,509	34,765
1939.....	304	44,001	60,829	41,228		53,969	100,873	(NA)
1929.....	416	44,887	73,905	41,066		64,076	129,534	
1919.....	743	(NA)	(NA)	36,464		51,440	101,187	
Wichita:								
1954 <sup>1</sup> .....	439	53,190	237,206	39,093	82,375	169,904	332,703	5,880
1947.....	(NA)	17,140	(NA)	(NA)	(NA)	(NA)	86,487	(NA)
Wilmington:								
1954 <sup>1</sup> .....	344	37,919	170,700	28,728	55,882	114,450	387,324	24,681
1947.....	(NA)	36,506	(NA)	(NA)	(NA)	(NA)	207,254	(NA)
Worcester:								
1954 <sup>1</sup> .....	768	50,197	201,435	38,555	75,959	137,485	348,165	15,929
1947.....	702	53,251	153,583	43,525	(NA)	114,474	241,917	17,661
1939.....	600	38,167	55,961	32,033		40,511	99,796	(NA)
York:								
1954 <sup>1</sup> .....	624	45,275	161,621	36,004	73,779	113,768	282,924	18,262
1947.....	599	42,117	101,061	35,746	(NA)	76,865	189,999	15,140
1939.....	455	29,909	30,224	27,114		24,246	66,435	(NA)
1929.....	586	33,480	37,891	30,331		29,934	88,991	
1919.....	1,023	(NA)	(NA)	27,117		23,680	57,243	
Youngstown:								
1954 <sup>1</sup> .....	723	105,646	479,748	88,386	166,522	374,054	873,610	49,129
1947.....	554	109,021	331,712	94,606	(NA)	274,351	569,388	33,784
1939.....	429	67,461	110,720	63,010		94,861	200,320	(NA)
1929.....	496	74,600	139,583	66,515		118,047	273,627	
1919.....	764	(NA)	(NA)	63,830		114,650	208,200	

Note: Detailed figures may not equal totals because of independent rounding.

NA Not available.

S Withheld because the estimate did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of consistency review. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period.

<sup>1</sup>The 1954 figures include data for establishments engaged in the processing of fluid milk, Industry Group 202, Dairy Products. These establishments were not included in the figures for the Annual Survey years 1949-1953 or earlier Census years. In addition, the 1954 Census and Annual Survey years include data for Logging Camps and Contractors, Industry 2411, which were not included within the scope of the 1947 Census and earlier years. There were also a number of changes in the definition of manufacturing industries during earlier Census years that affect the comparability of the historical series. Among the more important of these were: figures for 1935 and later years exclude data for "Railroad repair shops" and "Manufactured gas" which were included in 1899-1933 figures; the minimum size of establishment included for 1954 and 1947 was one employee, for 1939-1921 manufacturing establishments reporting value of shipments of \$5,000 or more were within scope whereas for 1919 and earlier years the cutoff was \$500. (This change in procedure has not appreciably affected the comparability of the historical data except for the figures on number of establishments.)

<sup>2</sup>The employment and payroll figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard error associated with these estimates are published in the Annual Survey of Manufactures volume for this period.

<sup>3</sup>This report includes only standard metropolitan areas with 40,000 or more manufacturing employees in 1954 or 1947. For definitions of the areas see footnotes to Table 4A.

<sup>4</sup>Data for the Fall River and New Bedford Standard Metropolitan Areas were combined in 1947 and 1939. The combined data for the two years are given below.

Year	Number of establishments	All employees		Production workers			Value added by manufacture	Capital expenditures, new
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)		
1947.....	588	62,572	142,422	57,379	(NA)	122,624	244,346	12,541
1939.....	451	54,791	52,365	48,127		39,790	72,661	(NA)

## GENERAL SUMMARY

Table 5.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS BY SELECTED COUNTIES: 1954 AND 1947

(For explanation of column captions see Introduction. This table presents, by States, statistics for all counties with 2,500 or more employees in manufacturing establishments in 1954. Statistics for at least five counties are, however, shown for each State. For States having fewer than five counties with 2,500 or more manufacturing employees, the next largest counties were added until a total of five was reached)

State and county	Popula- tion, 1950	1954								1947 <sup>1</sup>	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (1,000)	Wages (\$1,000)				
Alabama:											
Calhoun.....	79,539	106	12,322	36,224	11,297	20,754	31,159	63,365	1,965	10,381	36,702
Chambers.....	39,528	43	8,209	(D)	7,730	(D)	(D)	(D)	(D)	9,165	(D)
Clarke.....	26,548	76	2,783	5,651	2,637	5,122	4,991	12,515	381	1,830	5,710
Colbert.....	39,561	43	5,323	20,456	4,421	8,986	16,105	42,014	2,785	6,972	29,362
Covington.....	40,373	62	4,879	9,708	4,548	8,522	8,379	13,840	650	3,700	10,008
Dallas.....	56,270	71	2,873	5,292	2,636	4,686	4,312	9,550	479	2,723	8,103
Etowah.....	93,892	93	12,760	47,483	11,309	21,052	39,716	101,712	1,325	15,033	68,831
Jefferson.....	558,928	605	57,762	236,624	46,169	89,227	170,682	481,580	31,518	53,359	275,630
Lee.....	45,073	55	3,491	8,490	3,155	5,830	7,254	16,579	716	2,821	11,894
Madison.....	72,903	60	4,397	12,371	3,944	7,644	10,034	21,176	1,636	4,444	18,686
Mobile.....	231,105	226	15,381	56,703	13,158	26,418	45,324	123,245	8,022	17,581	91,312
Montgomery.....	138,965	192	6,281	17,753	4,738	9,371	11,602	33,057	1,489	5,617	24,942
Morgan.....	52,924	64	4,202	14,110	3,263	6,199	9,852	31,106	3,446	4,105	15,074
Talladega.....	63,639	88	8,392	23,736	7,370	13,445	19,250	54,298	1,724	6,442	26,225
Tallapoosa.....	35,074	70	6,915	17,108	6,514	11,828	14,656	25,370	1,847	7,140	35,479
Tuscaloosa.....	94,092	117	8,148	30,099	7,103	14,775	24,880	64,551	7,200	5,988	30,682
Arizona:											
Apache.....	27,767	15	876	(D)	764	(D)	(D)	(D)	(D)	877	(D)
Cochise.....	31,488	26	1,104	4,960	896	2,043	3,931	6,818	750	1,100	(D)
Gila.....	24,158	21	939	4,018	792	1,576	3,174	6,873	218	826	9,404
Maricopa.....	331,770	461	15,717	66,438	11,935	24,773	47,652	115,281	7,456	7,449	39,656
Pima.....	141,216	150	4,548	20,134	3,340	6,705	13,872	37,438	2,167	1,174	6,015
Arkansas:											
Ashley.....	25,660	46	2,603	8,808	2,368	4,755	7,446	19,042	3,382	2,014	12,797
Hot Spring.....	22,181	47	2,981	10,486	2,643	5,479	8,793	27,517	894	1,903	10,186
Jefferson.....	76,075	75	3,026	8,424	2,493	5,029	5,938	14,618	1,060	2,488	8,316
Ouachita.....	33,051	81	4,295	15,651	3,700	7,622	12,705	37,101	2,239	3,694	18,792
Pulaski.....	196,685	262	11,626	33,889	9,196	18,132	23,182	67,556	3,997	8,809	39,190
Saline.....	23,816	37	3,112	11,658	2,611	5,218	9,070	27,665	9,629	1,839	7,107
Sebastian.....	64,202	136	6,376	19,472	5,201	10,244	14,345	40,887	2,337	5,418	21,737
Union.....	49,686	78	3,955	14,943	3,288	6,575	11,687	46,257	7,111	3,812	27,468
California:											
Alameda.....	740,315	1,404	68,501	308,958	51,676	101,852	215,461	656,993	27,800	66,322	409,206
Butte.....	64,930	115	3,083	11,984	2,649	5,121	9,932	23,023	858	2,606	15,021
Contra Costa.....	298,984	233	28,014	137,238	21,531	42,428	96,943	350,049	51,829	24,316	155,142
Fresno.....	276,515	391	12,747	50,734	9,755	18,921	34,885	117,186	3,875	7,519	57,268
Humboldt.....	69,241	488	12,733	57,704	11,347	22,065	48,503	107,099	10,491	5,872	36,369
Kern.....	228,309	165	3,181	14,258	2,259	4,473	9,204	33,726	2,207	2,904	27,607
Los Angeles.....	4,151,687	13,861	624,047	2,872,004	458,781	920,712	1,887,031	4,925,646	290,260	352,672	2,021,513
Mendocino.....	40,854	266	6,437	28,547	5,673	11,676	24,098	49,902	4,674	2,463	13,386
Monterey.....	130,498	143	3,122	11,733	2,537	4,381	8,449	20,618	3,691	4,093	20,169
Orange.....	216,224	539	15,755	64,804	11,951	23,437	43,488	115,900	14,904	6,100	31,158
Riverside.....	170,046	207	8,517	35,076	6,695	14,037	26,218	68,661	3,450	4,414	27,626
Sacramento.....	277,140	288	10,907	46,787	8,082	15,735	31,362	112,203	11,441	8,320	52,512
San Bernardino.....	281,642	371	12,641	52,269	10,341	19,840	39,517	136,534	25,680	11,186	75,795
San Diego.....	556,808	595	47,731	221,657	37,310	74,405	156,997	390,218	7,986	20,783	101,548
San Francisco <sup>2</sup> .....	775,357	1,901	56,580	253,101	40,984	77,118	166,048	495,815	26,645	61,539	409,556
San Joaquin.....	200,750	266	11,033	45,205	9,017	17,952	34,329	109,352	4,958	9,861	65,610
San Mateo.....	235,659	413	17,021	81,033	12,257	24,158	52,327	143,261	7,386	9,430	60,228
Santa Clara.....	290,547	567	27,942	116,213	21,304	41,433	81,328	263,587	19,914	18,389	116,810
Santa Cruz.....	66,534	99	2,698	9,154	2,258	4,350	6,844	18,947	3,086	1,590	8,619
Shasta.....	36,413	112	3,249	14,899	2,810	5,461	12,338	25,515	3,018	1,264	8,845
Siskiyou.....	30,733	94	3,766	15,792	3,463	6,329	13,787	25,693	2,663	3,456	21,118
Sonoma.....	103,405	271	4,702	16,740	3,846	7,334	12,625	35,271	3,093	2,900	19,146
Stanislaus.....	127,231	175	6,536	24,190	5,292	10,485	17,888	63,258	2,444	5,278	31,727
Tulare.....	149,264	142	3,017	10,877	2,349	4,314	7,632	24,119	1,013	2,663	22,358
Ventura.....	114,647	87	2,700	12,022	1,598	3,131	5,705	20,556	1,265	1,575	8,354
Colorado:											
Arapahoe.....	52,125	61	2,566	11,062	1,935	3,871	7,299	16,912	694	1,318	4,632
Denver.....	415,786	890	33,458	135,265	24,319	49,674	89,776	236,932	13,803	30,876	162,391
El Paso.....	74,523	123	2,717	9,363	1,998	3,893	6,196	17,989	666	1,642	5,563
Jefferson.....	55,687	60	2,396	11,027	1,708	3,412	7,164	26,665	2,123	876	6,305
Pueblo.....	90,188	89	8,675	36,199	7,596	14,752	30,827	72,109	3,025	8,274	38,536
Connecticut:											
Fairfield.....	504,342	1,479	105,895	448,790	80,611	159,182	306,316	817,769	28,469	112,555	561,112
Hartford.....	539,661	1,168	130,848	560,875	102,218	205,379	403,445	873,906	41,740	113,820	525,706
Litchfield.....	98,872	268	16,962	64,556	13,967	27,305	47,354	106,172	7,429	18,205	85,360

See footnotes at end of table.



Table 5.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS BY SELECTED COUNTIES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

State and county	Popula- tion, 1950	1954								1947 <sup>1</sup>	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (1,000)	Wages (\$1,000)				
Connecticut—Continued											
Middlesex.....	67,332	227	10,088	37,928	8,106	16,475	27,270	68,696	2,468	10,544	42,791
New Haven.....	545,784	1,459	111,938	458,353	89,688	178,890	333,995	779,643	37,611	110,611	530,834
New London.....	144,821	287	22,658	91,788	19,377	39,258	73,632	146,371	9,629	17,900	79,354
Tolland.....	44,709	77	3,123	10,959	2,768	5,696	8,924	19,616	597	4,272	22,671
Windham.....	61,759	125	11,778	39,354	10,138	19,933	30,668	66,188	1,643	12,048	48,883
Delaware (only three counties):											
Kent.....	37,870	69	3,447	8,119	2,879	5,821	6,140	24,014	867	3,082	14,917
New Castle.....	218,879	259	27,278	116,099	21,025	41,042	80,453	251,617	13,008	24,175	121,594
Sussex.....	61,336	192	8,692	27,050	7,083	13,588	18,288	77,450	9,498	7,481	46,562
District of Columbia (no counties).....	802,178	484	20,399	90,083	11,821	22,390	44,743	157,213	6,536	17,815	99,067
Florida:											
Broward.....	83,933	191	2,862	9,409	2,235	4,461	6,499	16,031	1,374	784	3,818
Dade.....	495,084	1,238	24,229	79,470	17,772	34,660	50,009	141,213	9,775	9,271	45,528
Duval.....	304,029	423	17,343	57,854	13,477	27,671	39,941	124,330	10,728	12,771	66,736
Escambia.....	112,706	90	7,955	28,138	6,084	12,402	19,602	68,958	23,453	3,474	21,039
Hillsborough.....	249,894	458	18,509	57,503	14,953	30,056	41,612	114,875	8,432	16,179	59,796
Orange.....	114,950	210	4,125	14,451	2,932	6,098	9,081	34,107	4,385	2,752	10,888
Pinellas.....	159,249	295	4,364	13,247	2,895	7,378	7,572	25,131	1,563	1,954	8,332
Polk.....	123,997	151	8,744	27,449	7,307	15,294	21,039	53,316	17,284	5,076	22,603
Georgia:											
Barrow.....	13,115	27	2,514	4,618	2,319	4,263	3,840	6,097	809	1,841	5,103
Bibb.....	114,079	158	10,094	28,969	8,426	16,787	21,212	65,744	5,073	8,372	34,594
Carroll.....	34,112	73	3,031	6,663	2,780	5,121	5,681	9,594	1,123	2,279	5,416
Chatham.....	151,481	179	13,323	47,275	10,789	22,210	34,108	152,664	8,375	11,042	75,177
Chattooga.....	21,197	20	4,329	11,274	4,056	8,079	9,898	20,606	572	4,752	16,719
Clarke.....	36,550	71	3,476	8,625	3,033	6,324	6,791	15,687	579	2,851	10,211
Cobb.....	61,830	77	18,497	81,314	13,556	27,589	50,866	123,217	4,856	3,517	10,278
Coweta.....	27,784	48	4,150	9,405	3,842	7,080	8,251	17,239	708	3,993	14,232
DeKalb.....	136,395	146	6,907	27,862	5,821	12,144	21,242	70,319	2,897	2,887	9,768
Dougherty.....	43,617	71	3,138	8,910	2,515	5,203	6,188	14,469	3,509	2,053	8,722
Floyd.....	62,899	94	10,353	30,021	8,986	17,644	23,751	46,517	6,103	10,636	47,713
Fulton.....	473,572	865	53,096	178,497	41,706	82,057	120,884	358,472	16,931	42,626	217,402
Glynn.....	29,046	65	3,766	12,290	3,098	6,447	9,237	44,628	2,976	2,187	25,358
Hall.....	40,113	76	5,807	15,405	5,361	10,955	13,518	27,619	1,355	4,923	22,872
Haralson.....	14,663	18	3,092	9,543	2,887	5,369	7,038	14,928	449	2,367	7,548
Muscogee.....	118,028	124	17,046	42,068	15,032	28,774	33,195	67,202	3,474	18,889	86,953
Newton.....	20,185	29	3,274	6,946	3,050	5,640	6,238	9,394	659	3,225	(D)
Polk.....	30,976	38	3,696	9,441	3,351	6,104	7,907	19,429	5,211	5,414	16,806
Richmond.....	108,876	126	8,602	24,507	7,152	14,413	17,647	46,453	2,502	8,939	37,295
Spalding.....	31,045	48	7,082	15,884	6,602	12,048	13,865	20,972	547	6,831	24,447
Stephens.....	16,647	38	3,407	8,968	3,065	6,295	7,237	15,867	5,344	3,314	10,120
Troup.....	49,841	69	9,716	22,998	9,147	16,356	20,293	32,802	976	9,927	28,760
Upson.....	25,078	28	5,082	12,964	4,772	8,864	11,742	24,339	3,054	5,897	(D)
Walker.....	38,198	45	5,693	15,122	5,172	10,615	12,724	26,425	1,338	5,009	20,253
Whitfield.....	34,432	153	8,809	19,815	8,077	14,790	16,242	38,126	2,415	5,907	21,801
Idaho:											
Ada.....	70,649	116	1,976	7,303	1,444	2,786	4,782	13,608	730	1,480	7,792
Canyon.....	53,597	57	2,015	6,452	1,654	3,327	4,799	15,721	1,936	1,833	13,692
Kootenai.....	24,947	66	1,759	6,965	1,593	2,987	6,080	12,443	1,369	885	5,526
Nez Perce.....	22,658	39	2,924	(D)	2,610	(D)	(D)	(D)	(D)	2,105	11,138
Shoshone.....	22,806	37	1,472	(D)	1,292	(D)	(D)	(D)	(D)	1,101	(D)
Illinois:											
Adams.....	64,690	112	7,092	24,426	5,500	10,953	17,505	69,749	2,708	9,860	43,193
Coles.....	40,328	54	2,991	8,898	2,606	4,805	7,128	18,854	490	3,375	12,947
Cook.....	4,508,792	12,020	766,568	3,445,448	581,674	1,152,794	2,314,677	6,296,850	288,001	788,872	4,547,449
DeKalb.....	40,781	87	6,014	23,714	4,850	9,525	16,935	43,956	2,663	5,714	28,084
DuPage.....	154,599	226	5,554	22,236	4,360	8,265	15,094	46,527	3,471	2,863	15,554
Henry.....	46,492	56	3,897	13,453	3,112	5,277	9,760	21,801	1,455	4,339	18,356
Kane.....	150,388	369	27,614	117,542	20,498	40,841	76,016	204,487	8,943	26,552	138,002
Kankakee.....	73,524	102	8,883	37,251	6,570	12,917	24,603	90,600	3,765	7,417	37,494
Knox.....	54,336	64	5,262	21,919	4,201	8,057	16,540	40,844	1,690	4,376	21,943
Lake.....	179,097	281	23,857	107,025	17,383	34,212	69,645	212,407	10,852	20,482	139,396
LaSalle.....	100,610	146	17,585	74,361	15,078	30,990	61,142	163,114	8,051	16,839	98,898
McHenry.....	50,656	134	6,797	24,822	5,794	11,495	19,894	55,754	2,116	4,650	22,248
McLean.....	76,577	85	4,534	16,603	3,699	7,457	12,492	39,925	5,833	4,520	26,335
Macon.....	98,853	140	12,184	52,880	8,898	17,887	33,894	98,784	18,070	10,310	82,565

See footnotes at end of table.

## GENERAL SUMMARY

Table 5.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS BY SELECTED COUNTIES: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

State and county	Popula- tion, 1950	1954								1947 <sup>1</sup>	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture	Capital expendi- tures, new	All employees, number	Value added by manu- facture
			Number	Payroll (\$1,000)	Number	Man- hours (1,000)	Wages (\$1,000)				
Illinois—Continued											
Madison.....	182,307	199	32,825	150,016	24,905	49,579	105,653	332,077	45,693	34,122	199,632
Ogle.....	33,429	57	3,218	13,330	2,719	5,295	10,393	20,208	1,839	3,097	16,726
Peoria.....	174,347	242	14,995	68,552	11,443	23,022	47,977	155,545	7,969	17,476	158,056
Rock Island.....	133,558	198	22,878	102,571	17,356	33,473	72,317	176,773	14,326	28,050	128,515
St. Clair.....	205,995	251	22,861	96,138	17,700	34,817	68,978	170,059	23,478	25,158	123,885
Sangamon.....	131,484	155	12,816	53,256	9,579	19,182	36,964	111,208	4,022	12,047	54,976
Stephenson.....	41,595	69	5,385	20,160	3,900	8,005	13,116	37,615	2,900	4,686	18,846
Tazewell.....	76,165	71	22,783	98,795	18,768	36,962	76,662	206,951	12,965	25,035	122,614
Vermilion.....	87,079	125	9,640	37,123	7,857	15,449	27,423	73,468	5,074	7,495	33,377
Whiteside.....	49,336	68	7,001	29,814	5,562	11,291	22,847	60,840	2,724	6,187	37,573
Will.....	134,336	199	19,938	87,709	15,209	30,497	63,069	167,838	15,201	14,382	101,448
Williamson.....	48,621	46	3,332	9,520	2,777	5,186	7,322	22,648	683	1,158	4,876
Winnebago.....	152,385	439	38,194	177,568	29,318	61,937	124,101	312,770	16,255	35,054	188,535
Indiana:											
Allen.....	183,722	308	33,012	149,898	23,668	47,353	97,439	282,154	11,785	38,953	224,305
Bartholomew.....	36,108	84	7,710	31,014	6,125	12,239	22,573	68,110	2,868	6,382	32,374
Cass.....	38,793	55	3,190	11,113	2,535	4,773	7,823	21,186	432	3,397	15,202
Clark.....	48,330	46	9,866	45,321	7,807	16,600	34,933	92,536	4,865	3,974	53,969
Dearborn.....	25,141	40	4,288	15,226	3,607	5,885	11,638	52,973	1,252	5,228	71,661
DeKalb.....	26,023	69	2,733	10,437	2,140	4,082	6,985	17,199	1,011	2,490	11,147
Delaware.....	90,252	164	17,453	79,788	14,174	28,239	59,435	149,534	21,128	17,985	106,008
Dubois.....	23,785	83	3,262	9,928	2,835	5,878	7,864	15,709	489	3,069	13,180
Elkhart.....	84,512	317	17,153	73,652	13,636	27,057	51,597	153,876	5,708	15,478	83,167
Fayette.....	23,391	24	5,830	23,373	4,869	8,879	18,195	35,678	2,644	6,521	39,594
Floyd.....	43,955	69	4,256	13,784	3,418	6,620	9,527	20,096	1,424	3,911	15,132
Grant.....	62,156	125	10,979	42,040	9,038	17,877	31,389	70,316	6,406	10,688	54,615
Henry.....	45,505	56	4,639	20,668	3,936	7,972	16,917	32,558	1,082	5,769	25,233
Howard.....	54,498	87	13,498	57,283	11,404	22,750	45,111	92,110	5,203	11,626	51,022
Huntington.....	31,400	68	3,729	12,956	2,894	5,622	8,666	22,373	809	3,921	17,671
Jackson.....	28,237	47	3,168	9,839	2,725	5,491	7,811	18,699	726	3,283	13,584
Jay.....	23,157	39	3,193	11,644	2,697	5,294	9,054	17,600	1,109	3,343	14,346
Kosciusko.....	32,002	108	2,968	11,175	2,398	4,828	8,196	22,878	1,084	2,489	11,872
Lake.....	368,152	361	99,288	476,433	79,518	152,436	359,062	965,314	100,928	92,890	587,378
La Porte.....	76,808	157	15,921	66,351	11,899	23,954	46,030	111,083	4,536	13,663	70,778
Lawrence.....	34,346	46	4,939	18,884	4,253	8,199	15,076	28,780	855	2,956	12,314
Madison.....	103,911	150	25,725	114,815	21,408	43,739	90,739	206,088	15,584	26,048	125,395
Marion.....	551,777	1,102	102,233	464,243	74,681	150,971	302,764	844,783	48,209	92,259	483,375
Monroe.....	50,080	63	6,309	21,579	5,710	11,427	18,330	51,700	1,328	3,386	14,150
Montgomery.....	29,122	39	2,836	11,468	2,324	4,882	8,940	19,085	1,023	2,569	10,923
Noble.....	25,075	66	2,868	9,193	2,361	4,432	6,933	13,569	1,019	2,324	9,167
Perry.....	17,369	29	3,439	10,336	3,119	5,639	8,731	19,266	423	3,158	11,763
Randolph.....	27,141	53	3,695	13,054	3,153	5,966	10,360	21,974	2,139	2,976	12,294
St. Joseph.....	205,058	330	43,622	201,674	33,025	61,276	140,295	320,106	7,552	44,139	234,908
Shelby.....	28,026	60	2,721	8,518	2,284	4,380	6,301	11,491	765	2,816	11,346
Tippecanoe.....	74,473	68	8,293	35,800	6,335	12,545	23,983	67,303	8,067	6,980	37,936
Vanderburgh.....	160,422	219	32,562	137,178	24,956	48,234	94,373	238,222	7,624	29,053	138,922
Vigo.....	105,160	159	10,419	40,677	8,031	15,951	28,508	75,688	6,250	9,630	62,213
Wabash.....	29,047	66	4,454	17,024	3,691	7,370	12,659	31,531	1,252	4,351	17,517
Wayne.....	68,566	125	12,697	53,855	9,609	19,929	37,636	91,025	3,814	13,599	72,065
Iowa:											
Black Hawk.....	100,448	143	16,652	72,904	12,631	24,955	51,787	110,908	8,275	17,859	64,547
Cerro Gordo.....	46,053	60	3,778	14,873	2,939	6,168	10,791	28,586	1,707	3,519	18,475
Clinton.....	49,664	64	5,605	23,047	4,403	8,796	16,020	60,385	4,595	4,753	31,059
Des Moines.....	42,056	75	7,117	26,236	5,181	10,294	17,816	73,186	1,541	3,705	19,254
Dubuque.....	71,337	113	10,322	42,446	8,316	16,847	32,405	73,825	1,517	9,225	37,585
Jasper.....	32,305	34	4,374	19,291	3,132	6,752	12,369	39,936	5,676	4,287	20,569
Lee.....	43,102	63	5,973	26,215	4,798	9,311	17,024	62,973	2,637	6,792	39,610
Linn.....	104,274	196	18,457	75,434	13,399	28,066	50,117	150,759	5,979	14,313	81,333
Marshall.....	35,611	54	3,401	14,622	2,575	5,434	9,787	32,921	2,577	3,175	16,641
Muscatine.....	32,148	67	3,586	11,650	2,770	5,740	8,009	19,433	1,001	3,846	15,499
Polk.....	226,010	385	22,482	94,592	16,047	31,801	61,644	186,245	14,368	16,090	86,907
Scott.....	100,698	166	12,406	51,817	9,394	18,929	36,461	105,633	4,925	9,272	43,148
Wapello.....	47,397	51	6,431	26,944	4,910	9,888	19,912	33,893	1,334	6,185	(D)
Webster.....	44,241	61	4,032	16,519	3,214	6,753	12,588	40,271	1,489	3,210	19,857
Woodbury.....	103,917	146	9,401	36,651	7,250	14,843	25,761	46,794	2,898	9,889	44,756
Kansas:											
Johnson.....	62,783	49	5,151	21,983	4,255	8,094	17,361	26,122	2,296	324	1,225
Montgomery.....	46,487	76	5,262	20,848	4,368	8,656	16,519	37,186	785	3,899	23,460
Reno.....	54,058	89	2,720	10,540	2,117	4,461	7,318	22,646	1,468	2,585	17,890

See footnotes at end of table.



## GENERAL SUMMARY

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Table 5.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS BY SELECTED COUNTIES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

State and county	Popula- tion, 1950	1954								1947 <sup>1</sup>	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (1,000)	Wages (\$1,000)				
Kansas—Continued											
Sedgwick.....	222,290	439	53,190	237,206	39,093	82,375	169,904	332,703	5,880	17,140	86,487
Shawnee.....	105,418	138	6,010	23,711	4,243	8,291	15,503	56,929	3,138	5,974	29,317
Wyandotte.....	165,318	215	31,375	144,439	23,564	48,472	103,954	353,866	8,435	21,176	136,532
Kentucky:											
Boyd.....	49,949	52	4,993	23,527	4,142	8,112	18,425	48,327	13,271	5,021	31,329
Campbell.....	76,196	55	4,791	19,126	3,932	8,096	14,175	42,807	4,567	5,551	23,345
Daviess.....	57,241	73	7,665	25,561	6,550	12,514	19,955	44,790	3,093	5,821	42,092
Fayette.....	100,746	104	4,317	13,156	3,282	6,524	8,389	26,472	2,151	3,568	12,855
Graves.....	31,364	32	2,756	8,144	2,447	4,801	6,458	13,733	404	2,891	11,107
Jefferson.....	484,615	699	70,530	295,087	55,277	112,593	208,502	732,398	84,668	65,968	420,334
Kenton.....	104,254	99	4,387	19,416	3,142	6,366	11,744	39,548	1,830	3,669	24,248
McCracken.....	49,137	60	5,030	18,490	3,800	7,086	12,189	35,323	772	3,455	11,736
Warren.....	42,758	42	2,633	7,024	2,253	3,877	5,454	18,146	542	2,140	7,822
Louisiana:											
Caddo.....	176,547	187	7,335	26,517	5,496	11,303	18,138	59,531	3,274	6,507	31,081
Calcasieu.....	89,635	101	7,468	35,901	5,566	11,365	25,096	106,851	18,980	5,597	53,195
East Baton Rouge.....	158,236	142	18,882	98,399	12,409	24,836	59,260	254,864	36,875	16,818	132,820
Jefferson.....	103,873	124	12,192	50,949	9,366	19,574	35,510	96,200	49,162	8,473	53,130
Morehouse.....	32,038	24	3,123	(D)	2,598	(D)	(D)	(D)	(D)	2,765	(D)
Orleans.....	570,445	712	36,437	123,450	28,186	54,455	84,632	223,290	11,086	35,302	163,585
Ouachita.....	74,713	131	5,402	19,951	4,488	9,216	14,817	51,540	3,738	3,720	25,646
Rapides.....	90,648	101	3,523	9,681	2,839	6,231	6,445	16,994	819	3,591	13,643
St. Bernard.....	11,087	20	4,683	19,218	3,871	7,729	15,094	55,383	4,340	1,875	8,734
Washington.....	38,371	40	3,898	(D)	3,434	(D)	(D)	(D)	(D)	3,522	(D)
Webster.....	35,704	51	6,314	22,528	5,440	11,515	17,866	50,038	7,532	3,441	(D)
Maine:											
Androscoggin.....	83,594	247	15,240	43,194	13,740	25,348	35,697	71,728	2,602	16,717	76,536
Aroostook.....	96,039	203	3,028	8,831	2,594	5,423	7,382	21,479	3,097	1,897	11,730
Cumberland.....	169,201	358	16,313	54,570	13,761	27,718	41,454	99,252	3,974	13,943	64,171
Franklin.....	20,682	159	3,438	10,004	3,122	6,376	8,644	15,037	1,471	3,878	14,329
Kennebec.....	83,881	176	11,136	33,533	9,833	19,421	27,646	58,676	6,468	11,129	51,566
Knox.....	28,121	112	2,688	7,560	2,386	4,442	6,098	14,175	808	2,196	7,745
Oxford.....	44,221	269	7,524	25,399	6,526	13,907	20,210	38,940	3,602	7,219	26,481
Penobscot.....	108,198	373	12,040	39,640	10,495	22,140	32,065	72,119	29,642	9,440	47,514
Sagadahoc.....	20,911	39	3,947	15,271	3,427	6,398	12,457	31,881	957	4,157	8,792
Somerset.....	39,785	229	6,037	16,417	5,550	11,044	14,232	24,911	1,317	4,513	15,201
Washington.....	35,187	179	3,036	8,172	2,706	5,166	6,708	18,138	1,923	3,103	15,788
York.....	93,541	225	13,007	41,258	11,100	21,448	32,200	66,227	1,276	16,661	72,811
Maryland:											
Allegany.....	89,556	89	8,640	34,217	6,535	13,260	23,848	68,891	5,145	16,921	86,262
Anne Arundel.....	117,392	83	5,615	24,826	3,096	6,364	10,580	33,195	2,820	1,339	6,412
Baltimore City <sup>3</sup> .....	949,708	1,629	117,583	459,349	89,603	177,511	307,542	895,669	52,036	121,162	668,760
Baltimore.....	270,273	197	65,489	296,634	50,281	98,406	208,182	618,604	20,317	47,663	225,195
Carroll.....	44,907	80	4,946	14,324	4,212	8,037	10,461	24,837	1,078	4,144	17,601
Cecil.....	33,356	64	3,054	9,331	2,581	5,067	7,052	15,088	479	1,323	5,463
Dorchester.....	27,815	87	3,965	7,461	3,693	5,977	6,129	11,670	947	3,512	13,352
Frederick.....	62,287	82	3,976	10,599	3,475	6,810	8,513	17,630	916	3,962	12,130
Montgomery.....	164,401	119	3,146	12,570	2,169	4,406	7,037	21,224	1,546	1,531	6,581
Prince Georges.....	194,182	129	4,254	18,067	2,829	5,568	9,973	27,248	1,453	1,499	6,260
Washington.....	78,886	131	14,637	57,632	11,695	23,160	42,417	78,279	1,943	10,469	46,320
Wicomico.....	39,641	99	5,508	13,751	4,748	9,024	10,348	24,313	1,274	4,506	13,129
Massachusetts:											
Berkshire.....	132,966	219	25,843	103,230	19,403	39,040	69,961	197,757	13,258	28,223	136,878
Bristol.....	381,569	1,073	78,378	240,964	68,127	129,498	185,013	378,243	17,062	89,382	367,540
Essex.....	522,384	1,383	87,651	329,066	68,045	130,029	225,824	562,972	19,781	104,376	468,162
Franklin.....	52,747	131	7,034	26,503	5,730	11,541	19,237	47,634	2,316	7,965	37,247
Hampden.....	367,971	840	68,406	279,987	53,534	106,619	198,484	472,215	26,415	74,167	346,414
Hampshire.....	87,594	183	9,706	35,610	8,031	16,141	26,582	58,903	3,286	9,849	42,749
Middlesex.....	1,064,569	2,049	133,754	512,618	104,605	209,944	352,367	922,611	33,105	128,648	634,799
Norfolk.....	392,308	583	36,040	143,671	27,614	55,946	100,180	248,205	12,678	29,249	139,294
Plymouth.....	189,468	497	21,617	68,981	18,031	33,789	50,669	115,734	3,105	21,574	88,738
Suffolk.....	896,615	2,688	101,706	384,903	76,665	144,854	249,259	674,748	19,402	106,824	558,223
Worcester.....	546,401	1,470	106,030	399,591	85,588	168,594	289,468	672,125	29,892	117,248	534,227
Michigan:											
Allegan.....	47,493	95	3,354	13,173	2,758	5,685	9,952	25,821	2,130	2,840	16,760
Alpena.....	22,189	40	2,723	12,022	2,189	4,831	9,173	25,691	4,564	2,057	17,259
Barry.....	26,183	37	2,614	10,443	2,032	4,318	7,619	17,976	856	2,301	13,101
Bay.....	88,461	157	10,691	46,787	8,671	17,745	35,063	68,070	9,499	10,841	50,767

See footnotes at end of table.

## GENERAL SUMMARY

Table 5.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS BY SELECTED COUNTIES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

State and county	Popula- tion, 1950	1954								1947 <sup>1</sup>	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (1,000)	Wages (\$1,000)				
Michigan—Continued											
Berrien.....	115,702	293	20,831	92,240	16,086	31,922	64,013	178,497	9,176	18,344	89,819
Branch.....	30,202	63	2,514	9,609	2,107	4,184	7,494	15,947	961	2,660	12,268
Calhoun.....	120,813	197	21,102	94,073	16,236	31,903	67,824	239,018	7,641	19,758	126,630
Genesee.....	270,963	286	75,410	387,681	63,979	137,996	316,466	713,846	149,069	54,774	323,205
Gratiot.....	33,429	44	3,001	12,201	2,404	4,968	8,549	23,878	2,527	2,829	14,285
Ingham.....	172,941	209	29,394	150,248	24,251	56,037	117,558	318,340	15,350	25,852	155,054
Ionia.....	38,158	69	3,586	13,011	2,992	5,866	9,869	22,607	1,307	3,439	17,159
Jackson.....	107,925	265	15,575	72,444	12,478	24,547	56,746	141,473	5,836	16,261	87,913
Kalamazoo.....	126,707	267	23,948	108,035	18,502	38,729	74,800	221,408	18,369	20,867	150,412
Kent.....	288,292	776	52,337	244,270	41,221	86,735	177,077	454,194	27,710	49,241	255,255
Lenawee.....	64,629	163	11,320	52,570	9,447	19,496	42,063	96,903	3,488	10,426	50,005
Macomb.....	184,961	746	35,120	181,898	28,761	59,182	137,472	281,192	38,496	14,843	106,404
Marquette.....	47,654	139	2,588	7,434	2,195	4,078	5,865	13,975	788	2,611	10,318
Menominee.....	25,299	107	3,002	10,572	2,458	4,930	8,021	18,936	1,404	2,847	12,376
Midland.....	35,662	37	11,023	(D)	7,162	(D)	(D)	(D)	(D)	7,963	(D)
Monroe.....	75,666	100	8,655	44,427	7,232	15,181	34,734	67,984	3,487	6,820	44,630
Montcalm.....	31,013	54	3,485	14,443	2,615	5,228	9,912	27,108	943	3,612	22,041
Muskegon.....	125,545	197	25,272	116,326	20,345	39,485	86,815	186,973	17,985	30,187	142,616
Oakland.....	396,001	1,051	57,624	300,460	47,184	97,954	225,631	531,955	64,350	44,566	261,462
Ottawa.....	73,751	227	11,475	49,460	9,647	19,599	35,256	92,137	5,060	10,093	55,873
Saginaw.....	153,515	228	26,625	124,462	21,883	45,203	95,799	236,980	31,437	22,141	115,187
St. Claire.....	91,599	164	9,547	42,376	7,353	14,678	29,896	72,929	3,624	10,457	54,313
St. Joseph.....	35,071	121	6,483	24,471	5,352	10,975	19,168	54,110	2,760	5,914	33,028
Shiawassee.....	45,967	75	3,621	14,202	2,946	6,020	10,658	20,906	1,422	4,695	20,209
Van Buren.....	39,184	93	3,302	11,718	2,895	5,386	8,900	23,530	1,629	2,811	12,206
Washtenaw.....	134,606	194	21,163	99,821	17,202	33,970	75,033	172,533	24,653	23,065	120,298
Wayne.....	2,435,235	4,362	445,478	2,290,990	358,419	724,452	1,710,181	3,900,018	377,971	497,832	2,544,794
Minnesota:											
Anoka.....	35,579	44	5,060	24,080	4,508	9,746	20,994	35,198	1,115	2,148	14,022
Carlton.....	24,584	33	3,751	14,979	3,233	6,548	11,673	31,569	2,376	3,117	16,719
Dakota.....	49,019	51	7,954	35,666	6,163	13,557	27,054	37,592	2,365	7,826	32,310
Freeborn.....	34,517	58	3,127	11,504	2,317	4,806	8,196	17,588	905	2,840	17,026
Hennepin.....	676,579	1,511	71,267	300,033	50,780	100,721	186,854	536,293	19,721	66,365	385,211
Mower.....	42,277	28	5,558	(D)	4,140	(D)	(D)	(D)	(D)	5,135	(D)
Ramsey.....	355,332	640	49,922	222,593	34,895	69,407	139,657	472,239	24,102	44,096	281,919
St. Louis.....	206,062	382	11,189	43,598	8,975	17,014	31,911	66,459	5,390	11,543	46,228
Stearns.....	70,681	108	2,729	9,181	2,197	4,772	6,979	19,258	993	1,785	8,698
Washington.....	34,544	44	3,580	16,513	2,825	5,515	11,810	35,394	1,815	2,831	11,177
Winona.....	39,841	96	3,297	11,552	2,636	5,376	8,017	20,813	1,719	3,239	16,683
Mississippi:											
Adams.....	32,256	47	3,997	14,947	3,457	7,016	12,272	49,922	1,782	2,819	9,106
Forrest.....	45,055	68	3,071	8,214	2,554	4,965	6,066	20,309	766	2,826	16,489
Harrison.....	84,073	116	3,525	8,518	3,085	5,297	5,788	15,241	1,714	2,871	7,778
Hinds.....	142,164	185	7,421	21,557	5,870	11,884	14,579	46,940	3,761	6,694	30,373
Jackson.....	31,401	47	7,528	30,409	7,113	12,660	27,811	52,419	3,934	6,256	(D)
Jones.....	57,235	79	6,078	18,520	5,340	10,718	15,058	38,534	1,456	6,528	34,866
Lauderdale.....	64,171	112	4,245	10,896	3,527	9,414	7,961	19,215	1,133	4,321	18,235
Lee.....	38,237	41	3,133	6,906	2,774	5,264	5,344	15,909	781	1,833	7,396
Lowndes.....	37,852	52	2,904	6,880	2,568	5,158	5,334	12,217	2,200	2,623	8,984
Warren.....	39,616	47	2,616	8,088	2,062	4,466	5,637	11,792	3,097	2,415	9,683
Missouri:											
Audrain.....	23,829	33	3,439	12,759	2,688	5,221	8,750	22,335	1,099	3,919	14,129
Buchanan.....	96,826	124	11,207	42,574	8,396	16,694	29,403	64,441	3,052	11,125	52,734
Cape Girardeau.....	38,397	70	3,197	8,292	2,783	5,054	6,793	19,050	621	3,705	11,868
Clay.....	45,221	103	10,466	46,020	7,514	14,938	29,360	103,656	3,416	7,240	52,151
Franklin.....	36,046	69	4,551	11,567	4,156	7,439	9,869	23,563	327	4,038	10,238
Greene.....	104,823	180	6,682	20,697	5,195	10,686	14,563	48,283	6,229	5,295	18,506
Jackson.....	541,035	1,146	68,137	285,320	49,567	96,925	185,350	555,946	31,672	49,946	279,899
Jasper.....	79,106	146	7,525	25,383	6,223	12,454	19,327	44,468	3,240	5,500	25,216
Jefferson.....	38,007	33	3,759	19,637	3,103	6,765	16,218	35,231	2,686	4,438	30,560
Marion.....	29,765	41	2,579	7,165	2,146	3,861	5,510	12,979	238	2,976	9,566
St. Louis.....	406,349	419	35,678	160,712	25,588	51,348	104,889	326,687	11,012	10,347	58,596
St. Louis City <sup>3</sup> .....	856,796	2,230	158,092	644,120	121,575	234,639	439,748	1,207,787	50,642	172,592	909,096
Montana:											
Cascade.....	53,027	56	2,559	9,914	1,924	3,306	6,778	27,382	2,747	2,736	15,792
Deer Lodge.....	16,553	14	2,224	(D)	1,661	(D)	(D)	(D)	(D)	1,922	(D)
Lincoln.....	8,693	72	1,417	5,873	1,242	2,395	4,894	11,507	2,202	733	4,086
Missoula.....	35,493	79	2,273	9,277	1,916	3,755	7,395	15,774	1,438	1,800	8,416
Yellowstone.....	55,875	84	2,410	10,359	1,753	3,563	7,076	22,058	6,628	1,822	14,043

See footnotes at end of table.



## GENERAL SUMMARY

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Table 5.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS BY SELECTED COUNTIES: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

State and county	Popula- tion, 1950	1954								1947 <sup>1</sup>	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (1,000)	Wages (\$1,000)				
Nebraska:											
Dodge.....	26,265	44	1,586	6,287	1,227	2,485	4,657	8,819	583	655	3,420
Douglas.....	281,020	470	28,150	114,689	21,270	44,259	79,810	202,260	11,421	25,887	159,758
Hall.....	32,186	48	2,274	8,251	1,547	3,224	5,127	10,793	745	810	4,915
Lancaster.....	119,742	141	8,681	32,342	6,727	13,178	23,578	63,898	2,935	7,522	34,367
Saunders.....	16,923	11	1,398	(D)	1,096	(D)	(D)	(D)	(D)	203	993
Nevada:											
Clark.....	48,289	59	3,109	13,835	2,322	4,805	9,837	39,169	3,775	915	6,616
Douglas.....	2,029	5	55	234	36	52	102	637	55	38	(D)
Elko.....	11,654	8	52	142	33	56	92	212	(D)	(D)	(D)
Washoe.....	50,205	75	1,666	7,503	1,327	2,724	5,438	13,974	693	1,202	6,015
White Pine.....	9,424	4	530	(D)	464	(D)	(D)	(D)	(D)	354	(D)
New Hampshire:											
Belknap.....	26,632	93	3,844	12,352	3,053	6,052	8,795	21,367	815	4,627	19,186
Cheshire.....	38,811	152	6,006	20,603	5,179	10,443	15,823	34,971	1,328	5,566	24,001
Coos.....	35,932	111	5,297	18,515	4,559	9,331	15,274	33,288	3,310	3,939	(D)
Grafton.....	47,923	150	3,901	11,788	3,452	7,184	9,847	17,797	655	4,093	15,932
Hillsborough.....	156,987	438	31,616	100,005	27,149	51,724	77,223	166,355	6,272	31,845	132,176
Merrimack.....	63,022	190	5,648	17,997	4,907	9,819	14,712	26,660	1,177	6,354	26,135
Rockingham.....	70,059	165	5,852	17,448	5,114	9,726	13,546	28,229	2,406	4,235	13,119
Strafford.....	51,567	136	10,505	33,003	8,923	17,139	25,243	57,512	1,570	9,481	37,603
Sullivan.....	26,441	81	3,581	11,506	2,927	5,569	8,610	19,536	803	3,933	17,293
New Jersey:											
Atlantic.....	132,399	252	6,202	18,428	5,219	9,638	13,875	28,384	1,566	6,057	23,212
Bergen.....	539,139	1,499	82,818	367,934	60,495	121,098	235,112	654,901	20,224	52,508	325,495
Burlington.....	135,910	244	13,353	55,847	10,998	22,357	42,567	99,419	14,329	12,516	58,388
Camden.....	300,743	507	46,283	203,115	36,845	72,070	142,038	368,045	13,922	43,971	227,648
Cumberland.....	88,597	257	18,350	61,414	15,705	29,948	47,284	109,242	9,257	16,485	71,027
Essex.....	905,949	2,817	143,101	611,593	105,778	208,076	390,195	1,067,606	51,334	142,892	798,016
Gloucester.....	91,727	164	9,484	41,814	7,118	13,920	28,352	71,805	21,508	7,152	48,052
Hudson.....	647,437	2,363	133,063	569,410	100,902	195,838	380,317	1,119,182	41,723	144,039	889,898
Hunterdon.....	42,736	86	3,540	13,187	3,054	6,238	10,521	24,027	2,755	4,123	24,056
Mercer.....	229,781	443	38,289	157,238	30,069	58,629	112,465	302,999	14,903	40,422	208,485
Middlesex.....	264,872	651	65,529	284,183	51,462	102,226	199,495	608,462	43,165	59,614	334,239
Monmouth.....	225,327	406	14,014	46,647	11,441	18,922	33,947	96,556	3,435	11,587	56,589
Morris.....	164,371	352	17,650	72,290	13,720	28,003	49,483	160,471	7,860	12,837	82,167
Passaic.....	337,093	1,457	72,310	295,596	58,531	114,066	216,379	507,788	19,500	78,521	376,137
Salem.....	49,508	49	10,641	54,600	7,703	14,840	33,996	135,707	11,672	12,331	85,660
Somerset.....	99,052	166	15,669	69,185	11,439	22,006	44,489	127,265	8,024	14,217	83,366
Union.....	398,138	1,086	81,174	370,880	61,639	123,360	255,582	736,896	68,957	67,033	437,098
Warren.....	54,374	118	10,051	38,144	8,004	16,113	28,003	71,059	2,474	9,130	41,451
New Mexico:											
Bernalillo.....	145,673	180	9,281	43,525	4,822	9,442	18,656	85,740	2,957	1,954	8,743
Chaves.....	40,605	27	512	1,899	346	729	1,008	3,735	303	459	2,567
Eddy.....	40,640	28	602	2,401	464	964	1,750	6,040	970	368	2,503
Grant.....	21,649	12	468	1,836	394	833	1,542	5,051	104	371	(D)
Santa Fe.....	38,153	37	450	1,262	332	637	803	1,595	131	457	1,787
New York:											
Albany.....	239,386	336	22,500	91,788	17,143	34,131	62,339	159,022	7,101	22,273	116,711
Allegany.....	43,784	80	3,226	13,016	2,450	4,864	9,028	25,909	849	3,032	14,334
Bronx (Bronx Borough) <sup>4</sup> ...	1,451,277	2,078	52,472	184,843	42,990	81,879	132,417	323,030	8,256	41,323	194,500
Broome.....	184,698	289	40,502	159,561	32,523	60,697	112,853	268,720	15,213	35,769	159,879
Cattaraugus.....	77,901	139	8,716	34,225	6,762	13,544	23,782	56,382	2,244	8,681	45,334
Cayuga.....	70,136	134	8,197	32,354	6,431	12,644	23,294	53,350	1,750	10,088	48,081
Chautauqua.....	135,189	326	22,743	92,010	18,884	38,807	72,491	162,708	5,682	22,560	109,776
Chemung.....	86,827	109	16,203	65,634	13,262	26,891	50,715	132,627	6,396	16,358	74,571
Chenango.....	39,138	96	4,045	14,840	3,048	6,433	9,356	38,014	1,003	3,052	20,525
Columbia.....	43,182	96	4,168	14,507	3,370	7,000	10,318	29,180	1,226	4,647	23,302
Cortland.....	37,158	86	5,095	16,648	4,237	8,667	12,485	33,473	711	5,279	27,357
Delaware.....	44,420	88	5,762	22,458	4,221	8,615	15,038	36,025	1,218	3,158	14,247
Dutchess.....	136,781	232	20,191	93,723	15,047	31,260	61,990	153,288	6,942	14,692	70,587
Erie.....	899,238	1,529	148,247	679,214	114,180	228,112	484,674	1,213,897	109,034	139,985	752,621
Fulton.....	51,021	273	7,754	21,939	6,916	12,652	17,606	34,230	1,042	10,840	37,506
Genesee.....	47,584	80	6,760	27,135	5,684	11,925	21,587	56,428	3,854	6,169	33,795
Herkimer.....	61,407	128	12,539	44,635	10,304	19,963	34,141	92,457	2,365	15,232	63,154
Jefferson.....	85,521	145	6,285	23,379	5,131	10,664	17,751	44,415	2,682	7,199	31,782
Kings (Brooklyn Borough) <sup>4</sup>	2,738,175	7,851	235,634	857,477	196,205	369,517	623,083	1,530,186	45,032	229,632	1,178,730
Livingston.....	40,257	60	2,926	9,642	2,321	4,588	6,877	18,305	668	3,262	12,103
Monroe.....	487,632	979	111,385	508,033	83,246	163,733	338,183	919,779	58,810	107,493	514,543
Montgomery.....	59,594	106	10,652	37,066	8,929	17,380	29,171	76,702	2,552	13,866	74,015

See footnotes at end of table.

## GENERAL SUMMARY

Table 5.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS BY SELECTED COUNTIES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

State and county	Popula- tion, 1950	1954								1947 <sup>1</sup>	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (1,000)	Wages (\$1,000)				
New York—Continued											
Nassau.....	672,765	1,143	69,327	336,733	49,115	97,528	220,187	554,901	12,086	25,845	115,467
New York (Manhattan Borough) <sup>4</sup> .....	1,960,101	25,040	523,432	2,061,173	397,286	731,268	1,279,763	3,761,244	55,451	554,701	3,446,847
Niagara.....	189,992	300	52,554	254,659	38,702	78,465	170,623	463,881	30,443	42,891	270,610
Oneida.....	222,855	375	30,402	123,558	23,699	46,000	87,869	235,749	7,826	35,743	169,831
Onondaga.....	341,719	568	57,440	242,617	40,630	81,596	157,002	478,545	24,942	54,563	275,257
Ontario.....	60,172	92	4,379	16,378	3,557	7,142	12,154	28,727	1,245	5,383	23,577
Orange.....	152,255	341	15,456	51,540	13,287	25,300	39,357	93,032	3,858	13,877	59,465
Oswego.....	77,181	131	7,862	31,070	6,097	12,668	21,586	61,295	4,118	10,493	54,887
Queens (Queens Borough) <sup>4</sup> .....	1,550,849	2,772	125,788	519,008	99,197	195,525	352,784	944,623	30,023	97,013	582,269
Rensselaer.....	132,607	202	13,201	46,165	10,491	20,002	31,594	96,552	2,624	15,190	74,288
Richmond (Richmond Borough) <sup>4</sup> .....	191,555	202	10,515	44,326	8,236	15,659	31,740	112,382	4,923	10,620	94,817
Rockland.....	89,276	151	10,907	44,017	8,804	18,344	31,200	138,513	5,201	7,893	53,255
St. Lawrence.....	98,897	127	9,961	41,273	8,337	17,727	32,977	75,615	3,745	8,253	41,951
Saratoga.....	74,869	127	8,016	29,179	6,727	13,517	22,531	49,957	4,716	7,397	37,498
Schenectady.....	142,497	137	36,280	185,565	23,543	47,516	111,575	329,134	34,902	33,925	133,347
Seneca.....	29,253	34	3,141	13,356	2,399	5,108	9,292	26,870	2,504	2,665	10,798
Steuben.....	91,439	115	14,234	58,841	10,803	21,716	38,906	111,376	5,260	11,596	55,447
Suffolk.....	276,129	567	41,410	197,756	31,828	66,244	133,516	345,867	6,485	13,213	49,115
Tompkins.....	59,122	70	4,504	16,805	3,820	7,593	13,336	29,985	1,388	4,728	21,827
Ulster.....	92,621	240	9,185	28,559	8,067	15,622	23,185	46,153	1,861	7,412	24,760
Warren.....	39,205	97	4,441	15,923	3,602	7,408	11,277	28,066	1,995	4,074	19,849
Washington.....	47,144	104	4,914	18,634	3,878	7,847	13,011	40,927	1,988	5,054	22,991
Wayne.....	57,323	111	5,838	20,664	4,548	9,456	13,686	38,135	2,984	4,501	23,454
Westchester.....	625,816	1,208	51,088	208,532	38,412	75,824	138,849	422,478	15,868	46,761	269,484
Wyoming.....	32,822	64	2,930	9,675	2,481	5,039	7,520	18,135	947	3,138	13,594
North Carolina:											
Alamance.....	71,220	153	18,639	56,980	15,963	30,926	43,171	104,532	3,716	15,930	76,454
Buncombe.....	124,403	163	11,071	35,391	8,758	17,645	24,251	54,838	6,909	11,942	56,697
Burke.....	45,518	102	8,291	22,096	7,574	14,109	18,051	36,168	3,278	7,201	25,041
Cabarrus.....	63,783	63	22,239	55,136	21,133	38,310	50,126	76,384	1,764	22,525	106,016
Caldwell.....	43,352	83	9,041	23,396	8,290	16,578	19,685	39,351	1,034	8,083	29,766
Catawba.....	61,794	288	15,568	36,353	14,184	26,047	29,884	59,972	3,765	12,931	40,966
Chatham.....	25,392	99	3,302	8,190	2,970	5,450	6,689	13,795	1,149	1,853	5,220
Cleveland.....	64,357	76	7,995	20,363	7,340	14,455	17,271	28,396	1,587	7,923	34,357
Cumberland.....	96,006	75	4,187	10,031	3,679	7,388	8,032	16,813	751	3,400	12,382
Davidson.....	62,244	181	13,424	34,000	12,231	22,904	27,323	52,842	2,449	11,449	42,629
Durham.....	101,639	122	13,076	39,598	11,392	21,628	32,419	144,539	7,320	16,159	101,002
Forsyth.....	146,135	187	29,930	96,515	24,498	46,431	69,027	303,756	18,956	27,368	177,425
Gaston.....	110,836	219	27,192	68,685	25,269	48,741	59,734	115,165	7,307	29,607	123,378
Guilford.....	191,057	509	37,380	104,332	33,045	59,654	77,484	169,106	8,190	28,843	125,935
Halifax.....	58,377	85	5,713	14,075	5,196	9,597	11,836	23,244	1,607	5,688	21,930
Harnett.....	47,605	56	2,632	5,773	2,519	4,220	5,376	9,071	418	2,296	11,112
Haywood.....	37,631	35	4,961	20,929	3,856	7,820	15,622	48,436	4,749	4,405	22,221
Iredell.....	56,303	132	9,349	23,626	8,526	16,201	19,845	37,397	2,003	8,651	34,605
Johnston.....	65,906	66	2,531	5,356	2,346	4,320	4,554	8,294	319	2,181	7,336
Lee.....	23,522	89	3,472	8,434	3,132	6,322	6,799	14,420	1,237	1,865	5,398
Lenoir.....	45,953	51	4,278	14,388	3,291	6,353	8,722	40,312	3,356	2,271	6,449
Lincoln.....	27,459	61	3,061	6,714	2,848	5,381	5,792	9,697	272	3,350	10,397
McDowell.....	25,720	51	5,026	13,276	4,705	9,379	11,608	23,811	1,078	3,185	11,213
Mecklenburg.....	197,052	385	21,635	68,387	17,067	33,653	45,829	128,740	5,589	18,200	80,465
Montgomery.....	17,260	97	3,392	6,651	3,115	5,252	5,491	10,597	279	2,370	5,953
Moore.....	33,129	89	2,657	6,648	2,348	4,679	5,316	10,925	221	2,466	7,762
Nash.....	59,919	67	3,905	9,647	3,344	6,431	7,187	21,510	811	2,998	11,005
New Hanover.....	63,272	101	5,129	13,832	4,195	8,472	10,217	25,820	1,405	3,329	13,366
Randolph.....	50,804	200	11,807	31,566	10,817	20,866	27,227	51,826	2,252	8,865	31,577
Richmond.....	39,597	54	4,349	12,130	4,052	8,146	10,776	17,760	1,478	4,081	14,372
Robeson.....	87,769	67	2,983	7,213	2,753	5,412	6,232	10,579	596	3,360	11,879
Rockingham.....	64,816	83	10,075	28,137	9,267	16,648	23,914	91,743	1,631	11,744	72,658
Rowan.....	75,410	111	7,838	19,627	7,148	12,874	16,071	29,633	1,631	7,835	33,757
Rutherford.....	46,356	80	7,216	17,924	6,681	12,689	15,466	30,544	2,309	6,703	30,980
Scotland.....	26,336	30	2,851	6,716	2,654	5,191	5,941	10,326	1,203	1,999	7,402
Stanly.....	37,130	64	6,976	18,272	6,395	11,140	15,356	30,187	1,464	6,627	21,544
Surry.....	45,593	107	8,255	20,686	7,728	14,521	17,350	30,626	766	6,763	21,592
Tennessee.....	15,194	27	2,901	10,687	2,244	4,361	6,693	24,899	898	2,654	16,016
Vance.....	32,101	28	2,571	6,038	2,344	4,030	4,810	9,650	480	2,736	10,747

See footnotes at end of table.



Table 5.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS BY SELECTED COUNTIES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

State and county	Popula- tion, 1950	Estab- lish- ments, number	1954							1947 <sup>1</sup>	
			All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours	Wages (\$1,000)				
North Carolina—Continued											
Wake.....	136,450	167	6,041	17,009	4,697	9,157	11,144	25,885	9,403	4,002	15,499
Wayne.....	64,267	70	2,728	6,476	2,302	4,195	4,686	10,174	323	2,901	9,005
Wilkes.....	45,243	100	3,205	6,465	3,006	5,564	5,482	9,995	484	2,188	5,911
Wilson.....	54,506	63	2,552	6,267	2,123	3,997	4,476	10,868	635	2,548	7,529
North Dakota:											
Burleigh.....	25,673	19	385	1,373	250	525	812	2,615	292	275	1,626
Cass.....	38,877	60	1,871	7,072	1,355	2,827	4,760	10,799	(D)	1,748	8,362
Grand Forks.....	39,443	26	656	2,467	439	932	1,567	4,706	161	924	6,970
Morton.....	19,295	16	347	1,281	219	499	711	3,413	13,096	250	(D)
Ward.....	34,782	38	490	1,653	313	680	989	3,456	150	470	3,528
Ohio:											
Allen.....	88,183	136	14,691	57,831	10,577	20,862	40,485	99,158	10,930	14,709	73,143
Ashland.....	33,040	54	5,077	20,122	3,883	7,551	13,296	31,436	1,711	4,306	28,086
Ashtabula.....	78,695	166	8,037	33,676	6,360	12,584	24,822	61,162	14,114	7,096	38,775
Auglaize.....	30,637	59	4,220	16,969	3,422	6,777	12,438	30,612	1,157	3,969	16,729
Belmont.....	87,740	86	4,256	14,096	3,662	6,734	11,867	23,516	2,800	4,627	19,037
Butler.....	147,203	182	31,764	152,989	25,604	52,818	115,403	310,319	20,399	27,047	137,406
Clark.....	111,661	201	16,823	70,435	12,462	24,989	49,432	136,505	3,129	19,446	113,247
Columbiana.....	98,920	188	12,129	48,050	9,910	18,250	36,046	79,935	2,197	12,692	59,129
Coshocton.....	31,141	78	3,993	14,875	3,160	6,293	10,497	30,748	1,197	4,474	22,351
Crawford.....	38,738	91	6,487	26,634	4,914	9,553	17,681	42,636	4,638	5,946	33,018
Cuyahoga.....	1,369,532	3,583	279,139	1,320,450	213,096	423,567	904,886	2,296,567	209,230	259,516	1,486,070
Defiance.....	25,925	60	4,267	18,171	3,616	7,331	14,185	29,303	6,789	2,503	12,936
Erie.....	52,565	129	9,085	38,898	7,362	15,210	28,895	72,044	7,166	8,814	43,834
Fairfield.....	52,130	78	7,106	24,596	5,720	10,843	18,194	42,884	1,894	5,914	24,487
Franklin.....	503,410	792	72,936	314,521	51,934	105,055	204,464	581,383	34,731	54,925	277,964
Greene.....	58,892	54	2,524	10,674	2,184	4,621	8,531	22,670	1,731	1,679	8,625
Guernsey.....	38,452	63	3,015	9,850	2,486	4,493	7,292	15,157	3,015	2,272	8,542
Hamilton.....	723,952	1,660	142,139	634,816	104,441	213,460	412,651	1,236,313	66,626	125,329	727,798
Hancock.....	44,280	82	4,744	18,561	3,622	7,406	13,087	32,198	4,156	4,585	21,495
Huron.....	39,353	85	3,185	11,781	2,525	5,123	8,253	25,912	1,391	2,729	14,129
Jefferson.....	96,495	83	11,678	51,183	10,498	19,447	43,687	96,985	9,698	10,156	53,652
Knox.....	35,287	43	3,665	16,347	3,108	6,169	12,915	28,876	1,421	4,588	23,045
Lake.....	75,979	161	11,897	55,783	9,414	19,073	39,908	104,807	8,594	8,716	57,814
Lawrence.....	49,115	44	4,561	18,609	3,833	7,572	14,904	51,710	11,037	4,180	30,046
Licking.....	70,645	97	8,480	36,199	6,205	12,365	25,304	71,488	6,617	7,088	31,571
Lorain.....	148,162	235	30,096	136,363	24,893	48,766	105,224	282,297	15,387	28,980	131,638
Lucas.....	395,551	711	61,123	296,607	46,107	89,475	203,835	534,636	30,020	70,588	393,578
Mahoning.....	257,629	332	48,398	216,282	41,195	77,323	171,586	380,460	24,747	51,445	245,384
Marion.....	49,959	72	6,706	27,728	5,425	10,653	20,789	48,541	3,223	7,231	36,837
Madina.....	40,417	70	4,511	16,581	3,626	7,015	11,841	29,844	716	4,487	18,652
Mercer.....	28,311	54	3,067	10,931	2,617	4,887	8,570	22,043	879	2,106	10,826
Miam.....	61,309	127	8,890	36,387	6,929	13,965	25,199	70,662	3,131	7,965	44,606
Montgomery.....	398,441	716	94,593	452,345	76,191	153,096	341,478	724,749	47,010	93,668	487,755
Muskingum.....	74,535	104	9,905	36,759	8,135	15,994	27,784	78,765	2,578	9,491	44,714
Oitawa.....	29,469	67	2,762	11,413	2,303	5,018	8,992	19,702	1,389	2,552	15,508
Portage.....	63,954	111	9,039	39,161	7,322	14,972	29,111	56,955	1,967	7,234	32,896
Richland.....	91,305	163	19,541	87,891	15,327	29,726	62,662	161,570	10,992	18,663	118,465
Ross.....	54,424	43	4,103	17,717	3,364	7,803	13,783	31,919	3,302	3,411	16,376
Sandusky.....	46,114	107	7,775	31,819	6,279	12,331	23,125	62,191	6,056	6,544	35,549
Scioto.....	82,910	78	8,475	29,967	6,790	12,949	22,713	45,924	38,130	11,934	40,023
Seneca.....	52,978	96	7,625	32,539	6,254	12,431	24,438	71,584	4,085	8,727	49,819
Shelby.....	28,488	60	5,318	22,724	4,596	9,745	17,840	32,502	1,728	4,136	21,933
Stark.....	283,194	456	56,762	247,442	45,351	86,705	184,284	449,371	19,083	55,564	280,241
Summit.....	410,032	669	85,905	389,094	63,170	114,746	259,900	619,497	33,909	94,011	460,327
Trumbull.....	158,915	246	37,856	174,852	31,932	61,175	137,725	305,535	17,374	36,590	200,477
Tuscarawas.....	70,320	155	9,125	35,375	7,644	14,626	27,825	59,003	3,783	8,495	41,296
Washington.....	44,407	66	4,447	17,604	3,331	6,722	12,023	35,952	12,150	2,524	14,961
Wayne.....	58,716	111	7,820	32,140	6,215	12,986	22,951	64,070	4,474	5,825	32,856
Williams.....	26,202	71	2,988	11,423	2,413	4,854	8,411	20,951	974	2,491	10,929
Wood.....	31,605	93	6,256	33,829	5,364	11,872	28,624	67,593	17,396	5,547	43,581
Oklahoma:											
Creek.....	43,143	38	1,951	7,029	1,528	2,947	4,695	12,147	701	1,574	7,133
Garfield.....	32,820	61	1,901	6,993	1,318	2,776	4,432	14,320	617	1,852	17,732
Kay.....	41,892	50	4,125	17,557	3,531	6,888	14,677	46,785	9,123	3,681	24,612
Muskogee.....	65,573	61	2,525	7,325	2,012	3,837	4,979	16,970	474	1,663	7,638
Oklahoma.....	325,352	467	15,899	60,893	10,874	22,623	36,896	106,399	3,693	12,887	71,229
Okmulgee.....	44,561	37	2,931	12,145	2,536	4,863	10,252	20,953	864	2,336	13,743
Tulsa.....	251,686	520	28,895	124,413	21,703	43,990	84,264	203,125	8,928	14,756	96,462

See footnotes at end of table.

## GENERAL SUMMARY

Table 5.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS BY SELECTED COUNTIES: 1954 AND 1947—Continued  
(For explanation of column captions see introduction)

State and county	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (1,000)	Wages (\$1,000)				
Oregon:											
Clackamas.....	86,716	284	5,077	21,413	4,411	8,283	17,642	44,219	4,215	4,120	26,315
Clatsop.....	30,776	105	3,101	11,429	2,802	4,714	9,616	16,029	648	3,176	17,673
Columbia.....	22,967	113	2,760	10,962	2,486	4,345	9,351	20,885	3,230	2,942	22,115
Coos.....	42,265	303	6,985	30,257	6,290	11,514	25,826	52,601	7,896	3,749	26,631
Douglas.....	54,549	545	9,564	41,842	8,791	16,511	37,179	80,612	5,725	5,296	38,162
Jackson.....	58,510	259	4,987	21,308	4,390	8,176	17,629	37,636	2,815	2,878	22,604
Klamath.....	42,150	72	3,779	16,272	3,348	6,383	13,926	26,571	1,507	2,971	20,232
Lane.....	125,776	700	13,980	60,059	12,155	22,929	49,544	109,063	8,080	8,721	59,346
Lincoln.....	21,308	190	2,507	9,615	2,245	3,757	7,992	16,370	1,618	1,840	10,912
Linn.....	54,317	257	6,510	27,575	5,904	11,249	24,201	53,971	2,980	4,571	32,799
Marion.....	101,401	256	5,127	18,972	4,252	8,224	14,658	39,821	2,002	5,287	30,257
Multnomah.....	471,537	1,180	40,228	173,174	30,922	59,357	118,783	315,481	11,405	39,235	225,166
Polk.....	26,317	113	2,878	10,387	2,604	4,514	9,114	21,373	907	2,110	15,007
Tillamook.....	18,606	174	2,648	10,183	2,385	4,005	8,617	15,616	1,103	1,186	6,336
Umatilla.....	41,703	67	2,532	9,416	2,172	4,183	8,178	16,755	1,684	2,000	12,281
Washington.....	61,269	189	2,991	10,987	2,501	4,652	8,393	27,288	1,379	1,670	10,046
Pennsylvania:											
Adams.....	44,197	106	5,570	14,800	4,990	9,910	11,569	24,825	1,379	5,114	17,229
Allegheny.....	1,515,237	1,680	194,898	889,005	150,178	284,914	628,904	1,653,928	106,697	222,460	1,139,275
Armstrong.....	80,842	100	6,628	29,390	5,511	10,848	23,445	74,470	2,111	7,666	74,896
Beaver.....	175,192	194	47,005	210,626	38,833	73,622	162,453	394,118	26,833	44,428	233,149
Berks.....	255,740	669	49,130	167,369	41,468	78,141	126,928	294,269	17,415	53,024	230,161
Blair.....	139,514	137	8,417	25,939	6,836	13,161	18,904	47,007	4,861	8,423	33,152
Bradford.....	51,722	61	4,256	13,820	3,419	6,408	9,913	29,177	1,092	4,005	17,937
Bucks.....	144,620	437	35,584	153,950	27,415	56,478	110,161	262,728	15,800	17,136	73,685
Butler.....	97,320	137	10,146	42,787	8,530	16,165	33,344	88,708	3,662	9,530	45,466
Cambria.....	209,541	180	20,867	77,628	17,496	29,941	59,810	113,224	6,645	22,249	95,796
Carbon.....	57,588	108	7,348	20,418	6,402	11,306	16,162	35,696	1,116	7,360	34,515
Centre.....	65,922	87	3,723	12,564	3,034	5,915	9,093	32,078	1,469	4,029	17,816
Chester.....	159,141	289	19,660	81,743	15,739	31,881	58,077	142,928	14,260	17,230	83,933
Clearfield.....	85,957	146	5,487	17,714	4,676	8,729	14,006	28,384	1,072	5,060	20,350
Clinton.....	36,532	63	5,740	20,528	4,728	9,467	15,599	36,814	1,492	5,430	26,452
Columbia.....	53,460	115	10,307	34,661	8,481	16,879	27,254	48,067	2,591	10,089	46,843
Crawford.....	78,948	136	9,452	37,073	7,160	13,843	25,898	66,867	3,107	10,378	50,083
Cumberland.....	94,457	135	7,725	24,170	6,278	11,823	16,759	47,070	3,221	7,695	30,278
Dauphin.....	197,784	273	23,956	82,753	19,902	36,844	62,019	140,962	8,718	23,189	114,307
Delaware.....	414,234	393	52,883	256,548	39,067	78,735	173,805	428,141	43,863	48,358	266,657
Elk.....	34,503	63	7,263	26,545	5,936	11,563	19,362	47,834	3,851	6,839	28,607
Erie.....	219,388	422	40,488	171,969	31,786	62,089	122,133	286,397	13,882	46,285	224,906
Fayette.....	189,899	172	7,258	22,933	6,086	11,390	17,460	41,294	1,617	9,568	48,912
Franklin.....	75,927	126	9,064	28,266	7,856	15,376	22,965	51,866	2,332	9,204	34,856
Huntingdon.....	40,872	72	3,139	9,726	2,666	4,966	7,867	16,511	716	3,899	13,102
Indiana.....	77,106	82	2,787	8,814	2,232	4,137	6,458	15,082	607	1,991	7,729
Jefferson.....	49,147	99	4,878	15,253	4,165	7,843	12,197	32,148	885	3,413	14,747
Lackawanna.....	257,396	481	31,478	94,351	26,936	50,739	73,219	164,764	12,896	24,999	83,960
Lancaster.....	234,717	612	42,545	150,619	34,663	68,491	110,273	288,553	16,059	39,139	177,965
Lawrence.....	105,120	142	13,997	60,214	11,599	22,350	46,248	105,761	3,629	16,557	77,733
Lebanon.....	81,683	182	12,248	39,600	10,568	19,827	30,630	68,252	3,099	13,391	49,441
Lehigh.....	198,207	479	33,458	116,251	27,393	52,984	84,041	209,871	7,890	35,720	148,372
Luzerne.....	392,241	632	36,902	97,448	32,866	59,382	79,839	156,328	5,273	35,676	126,165
Lycoming.....	101,249	236	17,953	61,071	15,051	29,688	45,949	106,455	3,502	15,335	58,645
McKean.....	56,607	126	7,190	26,195	5,711	11,646	18,636	48,490	3,564	6,271	33,089
Mercer.....	111,954	145	19,391	88,613	15,257	28,022	64,742	187,613	7,006	20,986	123,527
Mifflin.....	43,691	64	6,310	23,100	5,340	10,242	18,719	33,832	1,818	7,243	32,055
Monroe.....	33,773	106	4,119	13,376	3,487	6,366	10,509	21,191	1,105	3,742	17,339
Montgomery.....	353,068	831	60,003	247,459	47,575	94,360	176,123	435,514	39,616	57,121	284,145
Northampton.....	185,243	410	46,756	168,784	38,874	71,262	127,698	312,557	33,053	43,764	170,846
Northumberland.....	117,115	172	12,984	38,442	11,101	20,578	29,658	72,150	4,667	14,325	58,016
Philadelphia.....	2,071,605	5,214	309,792	1,251,162	235,175	457,213	833,225	2,215,118	112,489	328,325	1,730,141
Schuylkill.....	200,577	276	18,662	48,957	16,559	30,498	39,810	83,539	12,048	16,631	49,773
Tioga.....	35,474	45	3,197	11,075	2,859	5,649	9,278	19,059	1,745	3,456	20,223
Venango.....	65,328	107	7,252	27,555	5,660	10,535	20,333	55,017	3,614	8,576	49,414
Warren.....	42,698	96	4,898	19,424	3,872	7,814	14,214	39,063	1,576	5,070	24,540
Washington.....	209,628	165	21,687	93,080	18,516	35,762	74,972	156,954	9,107	21,727	97,876
Westmoreland.....	313,179	342	39,818	171,704	31,924	60,213	128,790	275,530	21,366	49,313	234,027
York.....	202,737	624	45,275	161,621	36,004	73,779	113,768	282,942	18,262	42,117	189,999

See footnotes at end of table.



## GENERAL SUMMARY

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Table 5.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS BY SELECTED COUNTIES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

State and county	Popula- tion, 1950	1954							1947 <sup>1</sup>		
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (1,000)	Wages (\$1,000)				
Rhode Island:											
Bristol.....	29,079	59	5,167	17,401	4,367	8,660	13,461	29,139	1,015	5,832	27,181
Kent.....	77,763	201	8,142	26,963	7,041	14,110	21,763	39,975	1,669	7,722	36,665
Newport.....	61,539	50	1,011	3,314	819	1,551	2,425	8,330	184	690	2,445
Providence.....	574,973	2,248	105,735	364,228	88,113	176,561	266,221	599,873	24,013	128,414	574,592
Washington.....	48,542	77	3,913	13,457	3,458	6,882	10,594	19,961	788	4,724	18,022
South Carolina:											
Abbeville.....	22,456	20	2,781	7,760	2,637	4,202	6,878	9,515	537	2,679	12,497
Aiken.....	53,137	49	19,146	87,504	8,927	17,758	30,083	106,141	1,594	6,155	19,149
Anderson.....	90,664	110	16,816	46,129	15,744	32,131	40,910	74,458	4,914	13,822	64,476
Charleston.....	164,856	151	9,233	26,930	7,508	14,797	19,441	54,333	5,835	9,972	39,617
Cherokee.....	34,992	42	4,371	10,749	4,183	8,115	9,728	15,513	802	3,910	17,568
Chester.....	32,597	45	4,685	13,115	4,377	8,983	11,830	23,038	1,416	4,798	15,701
Darlington.....	50,016	51	4,966	15,839	4,347	8,636	12,383	28,387	2,029	4,474	18,367
Florence.....	79,710	84	2,589	5,770	2,171	4,212	4,115	9,064	1,181	1,864	5,950
Georgetown.....	31,762	68	3,023	(D)	2,662	(D)	(D)	(D)	(D)	2,992	(D)
Greenville.....	168,152	248	27,349	78,079	24,307	48,950	62,929	124,076	5,557	26,274	128,045
Greenwood.....	41,628	74	10,875	30,551	10,237	20,492	27,537	53,360	2,624	11,000	48,723
Kershaw.....	32,287	52	2,804	10,582	2,302	4,668	7,392	40,592	1,196	1,147	3,969
Lancaster.....	37,071	35	7,677	(D)	7,063	(D)	(D)	(D)	(D)	6,317	26,128
Laurens.....	46,974	48	6,861	18,543	6,477	12,971	16,358	28,271	713	6,594	30,590
Marlboro.....	31,766	27	2,562	6,675	2,317	4,560	5,225	10,220	908	1,652	6,395
Newberry.....	31,771	73	4,013	9,882	3,700	7,079	8,952	16,539	368	4,272	18,349
Oconee.....	39,050	61	5,774	13,973	5,489	10,726	12,717	20,719	1,433	3,519	14,920
Orangeburg.....	68,726	81	3,192	7,903	2,723	5,439	5,719	11,698	446	2,814	8,975
Pickens.....	40,058	55	5,086	13,633	4,739	10,098	12,181	21,363	5,437	4,979	17,629
Richland.....	142,565	147	7,691	20,847	6,284	12,541	15,166	35,603	2,100	6,935	27,190
Spartanburg.....	150,349	149	25,153	68,814	23,181	46,377	59,694	104,607	4,854	24,340	113,225
Sumter.....	57,634	64	2,745	6,355	2,346	4,804	4,672	11,990	546	3,325	9,451
Union.....	31,334	45	5,359	14,264	5,071	10,128	12,896	20,526	745	5,316	28,660
York.....	71,596	69	12,085	36,616	10,803	21,498	30,392	67,580	2,820	10,452	41,665
South Dakota:											
Beadle.....	21,082	16	541	(D)	423	(D)	(D)	(D)	(D)	660	(D)
Brown.....	32,617	34	707	2,499	469	1,020	1,508	4,393	190	662	2,958
Codington.....	18,944	22	768	2,661	561	1,160	1,796	4,291	251	619	3,749
Minnehaha.....	70,910	81	5,402	21,656	3,848	8,422	14,400	44,511	1,436	4,804	27,462
Pennington.....	34,053	48	913	3,131	653	1,365	2,032	5,101	406	914	4,490
Tennessee:											
Anderson.....	59,407	23	5,997	27,523	4,399	8,801	18,447	59,705	246	1,079	3,356
Blount.....	54,691	44	7,314	(D)	6,128	(D)	(D)	(D)	(D)	10,209	(D)
Bradley.....	32,338	69	4,143	10,931	3,652	7,325	8,111	21,105	1,367	3,622	14,788
Carter.....	42,432	38	4,060	14,123	3,204	5,979	9,311	24,467	5,499	6,020	(D)
Davidson.....	321,758	462	30,499	104,061	23,295	47,021	69,742	203,655	11,025	29,841	131,871
Gibson.....	48,132	44	6,655	22,432	6,115	11,109	17,474	30,163	980	2,503	7,273
Hamblen.....	23,976	50	4,359	13,502	3,532	7,618	9,767	31,735	1,627	1,989	6,115
Hamilton.....	208,255	365	37,066	128,447	30,552	59,292	94,791	250,889	32,158	33,184	128,851
Knox.....	223,007	279	20,592	62,289	16,945	32,860	44,476	104,594	4,667	19,905	74,962
Loudon.....	23,182	28	2,559	5,481	2,357	4,521	4,645	7,879	342	1,576	3,429
McMinn.....	32,024	76	3,310	8,448	2,934	5,583	6,645	14,249	22,311	2,265	7,293
Madison.....	60,128	61	3,405	8,935	2,864	5,594	6,899	13,804	492	3,128	15,166
Maury.....	40,368	46	3,647	12,888	3,072	6,080	9,874	29,897	2,575	2,512	14,278
Roane.....	31,665	35	8,740	39,200	6,094	12,387	23,608	85,087	1,465	2,998	7,620
Shelby.....	482,393	632	41,804	152,582	32,310	65,441	103,324	336,167	31,773	36,042	202,438
Sullivan.....	95,063	82	18,039	79,171	13,909	28,751	54,666	145,474	14,639	17,981	96,089
Washington.....	59,971	72	3,399	9,040	2,970	5,845	7,066	15,595	969	3,193	12,085
Texas:											
Angelina.....	36,032	65	4,295	15,512	3,607	7,759	11,878	32,627	3,289	4,522	23,565
Bexar.....	500,460	551	17,894	54,372	13,186	27,186	33,715	111,139	5,098	15,514	68,931
Bowie.....	61,966	59	4,279	14,094	3,540	7,055	10,634	21,793	2,144	2,536	8,719
Brazoria.....	46,549	26	6,654	35,129	4,686	9,345	23,043	147,257	29,221	4,023	(D)
Cameron.....	125,170	112	2,977	7,152	2,298	4,669	4,633	14,644	954	2,461	9,967
Dallas.....	614,799	1,369	72,770	290,812	52,757	107,581	181,510	508,271	20,021	38,828	238,839
El Paso.....	194,968	180	9,232	28,534	7,581	15,176	21,032	51,252	16,883	6,176	35,175
Galveston.....	113,066	87	10,910	54,437	8,104	15,717	37,999	156,569	28,332	8,716	71,361
Grayson.....	70,467	78	4,187	13,223	3,295	6,981	9,152	31,826	1,362	3,576	25,401
Gregg.....	61,258	82	2,889	11,177	2,010	4,250	6,679	12,253	4,677	2,365	9,806
Harris.....	806,701	1,401	77,756	362,976	57,532	118,601	243,154	868,747	87,235	58,254	384,718
Harrison.....	47,745	60	3,071	9,634	2,454	5,054	6,626	17,587	10,389	2,584	7,977
Hutchinson.....	31,580	22	3,062	14,988	2,162	4,287	10,310	54,057	3,629	3,227	69,171
Jefferson.....	195,083	190	25,445	125,098	20,260	40,117	94,567	222,802	66,999	23,181	177,508

See footnotes at end of table.

## GENERAL SUMMARY

Table 5.--GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS BY SELECTED COUNTIES: 1954 AND 1947--Continued  
(For explanation of column captions see Introduction)

State and county	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (1,000)	Wages (\$1,000)				
Texas—Continued											
Lubbock.....	101,048	126	2,818	10,134	1,900	4,294	5,827	22,902	2,042	1,470	8,558
McLennan.....	130,194	147	7,715	26,521	5,898	12,240	18,273	62,764	7,739	6,451	32,621
Nueces.....	165,471	150	6,721	28,241	4,589	11,298	17,990	71,593	6,424	4,577	41,599
Orange.....	40,567	39	5,380	25,541	3,813	7,539	16,128	76,285	12,761	3,835	16,598
Potter.....	73,366	118	3,115	12,309	2,050	4,332	7,463	24,586	18,488	2,426	14,985
Smith.....	74,701	101	3,726	12,520	3,064	6,062	9,391	23,664	3,897	2,459	11,676
Tarrant.....	361,253	601	48,367	211,122	37,308	73,993	148,799	368,152	16,527	32,039	146,501
Taylor.....	63,370	73	2,532	7,443	1,818	3,718	4,482	20,753	711	1,294	5,068
Travis.....	160,980	143	3,388	11,003	2,280	4,619	6,318	17,816	961	2,554	11,793
Wichita.....	98,493	101	3,015	11,012	2,280	4,670	7,343	26,350	1,058	2,972	21,648
Utah:											
Cache.....	33,536	36	788	2,305	667	1,299	1,840	5,460	350	881	6,902
Davis.....	30,867	32	1,071	4,153	787	1,639	2,846	9,703	1,270	766	4,440
Salt Lake.....	274,895	446	15,110	60,156	11,432	22,735	40,656	161,496	8,193	10,836	57,779
Utah.....	81,912	84	6,734	30,397	5,316	10,354	22,505	56,578	10,223	5,894	31,105
Weber.....	83,319	85	2,937	11,029	2,116	4,274	7,256	21,743	1,896	3,303	14,470
Vermont:											
Bennington.....	24,115	79	3,458	11,342	2,939	5,797	8,589	19,570	871	3,365	11,719
Chittenden.....	62,570	114	4,978	17,520	3,764	7,396	11,893	30,805	(D)	5,766	23,708
Rutland.....	45,905	138	4,538	13,113	3,855	7,406	10,147	22,669	793	3,364	13,773
Washington.....	42,870	174	3,232	10,876	2,711	5,247	8,583	16,338	553	3,261	14,801
Windham.....	28,749	129	3,321	10,222	2,917	5,915	8,245	20,558	741	3,278	16,887
Windsor.....	40,885	104	8,012	33,987	6,658	13,160	25,701	62,724	3,017	7,073	26,662
Virginia (counties and independent cities):											
Bristol city.....	15,954	42	3,039	9,269	2,417	4,697	6,446	15,663	492	3,557	11,042
Campbell county.....	28,877	63	3,347	10,808	2,846	6,199	7,954	17,498	948	3,301	15,999
Chesterfield county.....	40,400	42	4,738	(D)	3,522	(D)	(D)	(D)	(D)	(NA)	(NA)
Covington city.....	5,860	13	2,869	11,109	2,318	4,582	8,374	26,622	(D)	(NA)	(NA)
Danville city.....	35,066	57	13,240	38,993	11,721	22,150	30,490	54,062	4,170	(NA)	(NA)
Giles county.....	18,956	20	2,533	9,263	1,979	3,780	6,705	33,804	1,147	4,522	(D)
Halifax county.....	41,442	39	2,652	6,213	2,394	4,649	5,088	10,710	414	2,673	12,789
Henry county.....	31,219	81	8,315	27,229	7,252	14,357	21,146	138,070	1,778	7,167	47,187
Hopewell city.....	10,219	14	4,417	18,682	3,346	7,026	13,297	52,932	(D)	3,962	27,670
Isle of Wight county.....	14,906	29	2,569	8,962	2,157	4,458	6,482	21,376	2,196	1,702	13,663
Lynchburg city.....	47,727	87	10,299	27,734	8,774	16,653	21,446	41,010	3,040	8,794	29,703
Martinsville city.....	17,251	38	5,700	14,172	4,974	10,216	11,970	24,254	647	2,548	10,560
Mecklenburg county.....	33,497	58	2,795	6,509	2,447	4,415	4,969	10,916	782	1,407	4,687
Newport News city.....	42,358	44	16,328	74,488	15,052	30,028	67,665	101,730	2,252	12,081	47,037
Norfolk city.....	213,513	210	10,683	39,328	8,290	16,811	26,408	81,006	3,102	10,403	54,539
Petersburg city.....	35,054	58	6,013	16,754	5,451	10,684	14,061	50,471	1,779	5,340	19,182
Radford city.....	9,026	10	6,549	26,355	5,495	10,751	20,990	31,417	10,090	1,247	(D)
Richmond city.....	230,310	381	30,375	102,915	23,998	46,383	71,193	285,599	15,719	28,126	204,385
Roanoke county.....	41,486	45	3,008	9,998	2,577	5,150	7,743	15,585	704	5,455	27,515
Roanoke city.....	91,921	104	9,724	32,595	7,659	15,774	22,928	47,338	4,973	5,832	22,077
Rockbridge county.....	23,359	28	2,621	(D)	2,333	(D)	(D)	(D)	(D)	1,987	13,216
Smyth county.....	30,187	32	3,551	11,592	3,083	6,051	9,242	30,187	763	3,196	11,054
Spotsylvania county.....	11,920	34	2,875	(D)	2,394	(D)	(D)	(D)	(D)	2,810	(D)
Suffolk city.....	12,339	30	2,527	6,162	2,321	4,611	5,219	17,529	563	(NA)	(NA)
Warren county.....	14,801	18	2,686	10,270	2,223	4,564	8,022	29,835	1,585	3,710	(D)
Waynesboro city.....	12,357	23	4,682	19,161	3,620	7,050	12,457	34,502	4,647	(NA)	(NA)
Washington:											
Chelan.....	39,301	64	2,542	11,054	2,079	4,189	8,731	29,104	979	1,548	7,382
Clallam.....	26,396	120	3,204	15,137	2,871	5,337	13,032	37,592	4,372	1,960	19,249
Clark.....	85,307	134	8,431	34,422	7,004	13,650	27,216	88,032	10,190	6,618	52,746
Cowlitz.....	53,369	161	8,934	38,242	7,969	14,507	32,510	99,540	13,460	8,140	69,781
Grays Harbor.....	53,644	203	7,590	30,739	6,870	12,011	26,375	51,868	3,865	7,465	48,463
King.....	732,992	1,447	78,447	354,664	54,931	105,211	220,541	520,928	21,823	54,770	265,422
Lewis.....	43,755	223	2,903	11,149	2,550	4,427	9,195	21,015	1,071	2,440	12,365
Pierce.....	275,876	432	17,052	72,643	14,090	26,499	55,674	145,873	7,504	16,896	106,426
Skagit.....	43,273	158	3,659	15,099	3,121	5,513	12,194	27,647	2,266	3,002	18,951
Snohomish.....	111,580	294	9,279	37,596	8,101	14,614	31,090	78,884	33,947	8,854	71,833
Spokane.....	221,561	330	13,674	59,851	10,757	21,326	43,888	135,949	5,296	10,852	71,980
Thurston.....	44,884	104	3,318	14,551	2,798	5,220	11,537	26,744	2,708	2,493	14,908
Whatcom.....	66,733	164	4,679	19,122	3,962	7,284	15,281	40,199	26,203	3,566	22,919
Yakima.....	135,723	165	4,844	18,754	3,889	7,898	13,864	39,781	2,194	4,466	22,226

See footnotes at end of table.



Table 5.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS BY SELECTED COUNTIES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

State and county	Popula- tion, 1950	1954							1947 <sup>2</sup>		
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (1,000)	Wages (\$1,000)				
West Virginia:											
Berkeley.....	30,359	44	3,454	9,697	2,923	5,630	7,420	19,381	1,168	4,188	13,181
Brooke.....	26,904	40	4,167	16,818	3,576	6,735	13,386	32,063	4,889	4,674	24,217
Cabell.....	108,035	140	13,793	52,525	10,886	20,798	36,975	105,863	5,402	12,106	56,103
Hancock.....	34,388	32	16,008	(D)	14,540	(D)	(D)	(D)	(D)	17,580	92,471
Harrison.....	85,296	84	6,597	26,773	5,622	10,608	22,561	45,423	1,543	7,264	36,335
Kanawha.....	239,629	182	21,222	107,455	15,818	31,707	74,963	260,482	26,928	23,073	178,158
Marion.....	71,521	52	4,304	17,272	3,656	7,313	13,741	35,620	1,247	6,686	35,037
Marshall.....	36,893	34	5,828	22,167	5,055	9,227	17,940	43,841	11,102	5,683	29,164
Monongalia.....	60,797	60	3,468	11,890	2,612	5,102	8,935	24,223	1,974	2,316	9,281
Ohio.....	71,672	110	7,750	30,000	6,270	11,717	22,118	50,091	2,550	9,031	40,968
Putnam.....	21,021	15	2,518	11,191	1,810	3,746	7,437	35,120	2,988	2,493	22,642
Wood.....	66,540	81	7,919	30,235	6,416	12,767	22,251	62,924	3,439	9,434	42,277
Wisconsin:											
Brown.....	98,814	241	11,071	47,193	8,921	19,220	35,474	92,972	5,981	9,491	54,566
Chippewa.....	42,839	81	3,076	11,394	2,260	4,548	7,579	24,270	1,588	1,940	10,521
Dane.....	169,357	261	13,355	55,714	10,021	20,046	38,332	95,893	4,368	10,671	49,070
Dodge.....	57,611	151	5,271	18,197	4,303	8,781	13,635	38,301	2,003	5,729	31,576
Eau Claire.....	54,187	77	6,337	30,162	5,055	10,821	23,574	53,857	2,636	8,672	47,226
Fond du Lac.....	67,829	142	7,784	30,127	6,083	11,947	20,066	60,457	1,748	7,153	38,410
Jefferson.....	43,069	111	6,506	25,285	5,044	10,430	17,073	42,832	1,869	5,833	28,614
Kenosha.....	75,238	116	15,113	65,925	11,618	22,200	48,386	110,401	4,443	17,069	99,694
La Crosse.....	67,587	113	9,078	38,635	6,946	14,249	27,309	66,888	3,429	9,700	51,813
Manitowoc.....	67,159	178	11,225	42,813	9,236	19,460	32,333	85,594	2,542	9,774	61,499
Marathon.....	80,337	179	8,902	33,008	7,308	14,764	24,522	62,097	6,336	8,593	47,763
Marinette.....	35,748	102	3,993	15,999	3,112	6,279	11,345	35,386	1,574	4,004	17,763
Milwaukee.....	871,047	1,979	175,802	809,880	129,608	255,419	538,856	1,439,620	68,648	178,412	972,613
Outagamie.....	81,722	172	10,382	40,750	8,527	18,013	30,674	76,260	3,296	10,211	52,712
Ozaukee.....	23,361	85	4,114	15,477	3,234	6,519	10,500	25,716	1,692	3,592	18,456
Racine.....	109,585	303	22,024	99,999	15,934	31,424	64,234	204,641	8,666	22,512	124,664
Rock.....	92,778	124	17,279	76,435	14,064	28,183	57,456	169,189	10,445	16,200	91,738
Sauk.....	38,120	77	4,256	15,986	3,296	6,921	11,693	20,435	478	1,025	3,750
Sheboygan.....	80,631	238	12,071	48,531	9,594	20,382	34,293	80,807	2,949	13,485	71,410
Walworth.....	41,584	87	3,222	12,477	2,699	5,379	9,375	23,583	1,461	2,718	10,935
Washington.....	33,902	83	5,218	20,140	4,150	8,177	13,548	38,749	1,535	4,219	21,396
Waukesha.....	85,901	243	8,014	33,502	6,104	12,199	23,141	54,333	2,756	7,280	40,929
Winnebago.....	91,103	240	16,378	67,230	13,485	28,310	50,973	129,759	7,526	15,432	85,397
Wood.....	50,500	112	7,827	29,755	6,604	13,462	23,526	59,486	5,952	7,092	39,704
Wyoming:											
Albany.....	19,055	22	553	2,075	459	975	1,680	3,621	136	603	2,177
Carbon.....	15,742	19	771	(D)	640	(D)	(D)	(D)	(D)	693	(D)
Laramie.....	47,662	37	840	3,551	439	872	1,992	6,489	559	569	4,953
Natrona.....	31,437	34	1,728	8,927	1,284	2,497	6,264	14,566	4,534	1,287	7,363
Park.....	15,182	14	334	1,640	200	428	799	1,462	256	218	(D)

D Withheld to avoid disclosing figures for individual companies. NA Not available.

<sup>1</sup>The 1947 data are not strictly comparable with the figures shown for 1954 due to differences in coverage of loggers and fluid milk distributors. See discussion in Introduction.

<sup>2</sup>San Francisco city is coextensive with San Francisco county.

<sup>3</sup>The independent cities of Baltimore, Md., and St. Louis, Mo., are treated as counties.

<sup>4</sup>A borough of New York City.

Table 6A.—MANUFACTURING EMPLOYMENT FOR REGIONS AND DIVISIONS: 1954  
(For explanation of column captions, see INTRODUCTION)

Region and division <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative and auxiliary units	
	(Number)	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
United States, total.....	16,125,550	65,976,667	15,651,294	62,993,321	474,256	2,983,346
Northeast.....	5,741,317	23,333,731	5,536,548	22,012,291	204,769	1,321,440
New England.....	1,450,025	5,460,694	1,431,300	5,356,133	18,725	104,561
Middle Atlantic.....	4,291,292	17,873,037	4,105,248	16,656,158	186,044	1,216,879
North Central.....	5,568,294	24,788,978	5,399,186	23,735,074	169,108	1,053,904
East North Central.....	4,604,516	20,925,690	4,459,829	20,003,625	144,687	922,065
West North Central.....	963,778	3,863,288	939,357	3,731,449	24,421	131,839
South.....	3,242,909	10,863,209	3,173,495	10,448,100	69,414	415,109
South Atlantic.....	1,778,959	5,702,560	1,745,372	5,480,901	33,587	221,659
East South Central.....	729,947	2,366,908	714,758	2,288,840	15,189	78,068
West South Central.....	734,003	2,793,741	713,365	2,678,359	20,638	115,382
West.....	1,572,939	6,990,437	1,541,974	6,797,544	30,965	192,893
Mountain.....	190,674	766,726	187,493	749,586	3,181	17,140
Pacific.....	1,382,265	6,223,711	1,354,481	6,047,958	27,784	175,753

<sup>1</sup>See Table 4A for states included within each division.

## GENERAL SUMMARY

Table 6B.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS FOR INDUSTRY GROUPS BY REGIONS AND DIVISIONS: 1954 AND 1947

(For explanation of column captions see introduction)

Code	Major industry group, region and division <sup>1</sup>	Establish- ments, number	1954						1947		
			All employees		Production workers			Value added by manufacture	Capital expendi- tures, new	All employees, number	Value added by manufacture
			Number	Payroll (\$1,000)	Number	Man-hours ((1,000)	Wages (\$1,000)				
	All industries:										
	United States, total.....	286,817	15,651,294	62,993,321	12,373,030	24,341,239	44,595,457	116,912,526	7,818,155	214,293,963	274,290,475
	Northeast.....	107,005	5,536,548	22,012,291	4,366,559	8,493,011	15,383,625	39,530,471	1,975,353	5,429,032	27,566,105
	New England.....	24,625	1,431,300	5,356,133	1,154,083	2,275,672	3,858,699	9,128,281	424,264	1,475,162	6,798,114
	Middle Atlantic.....	82,380	4,105,248	16,656,158	3,212,476	6,217,339	11,524,926	30,402,190	1,551,089	3,953,870	20,767,991
	North Central.....	77,966	5,399,186	23,735,074	4,202,876	8,390,603	16,838,658	43,614,345	3,043,004	5,108,959	27,589,889
	East North Central.....	58,946	4,459,829	20,003,625	3,489,654	6,964,115	14,265,381	36,500,510	2,653,891	4,322,812	23,474,185
	West North Central.....	19,020	939,357	3,731,449	713,222	1,426,488	2,573,277	7,113,835	389,113	786,147	4,115,706
	South.....	59,853	3,173,495	10,448,100	2,624,196	5,143,158	7,654,080	21,080,627	1,906,315	2,710,095	12,856,500
	South Atlantic.....	30,530	1,745,372	5,480,901	1,466,333	2,847,757	4,072,169	10,657,729	789,254	1,523,890	6,941,906
	East South Central.....	12,854	714,758	2,288,840	601,493	1,166,807	1,713,827	4,701,863	395,995	635,445	2,884,391
	West South Central.....	16,469	713,365	2,678,359	556,370	1,128,594	1,868,084	5,721,035	721,066	(3)	(3)
	West.....	41,993	1,541,974	6,797,544	1,179,121	2,313,922	4,718,355	12,689,115	891,587	(3)	(3)
	Mountain.....	6,685	187,493	749,586	144,101	286,848	532,152	1,505,145	126,844	(3)	(3)
	Pacific.....	35,308	1,354,481	6,047,958	1,035,020	2,027,074	4,186,203	11,183,970	764,743	(3)	(3)
20	Food and kindred products:										
	United States, total.....	42,374	1,647,204	6,201,500	1,138,239	2,316,661	3,759,071	13,400,218	789,050	(4)	(4)
	Northeast.....	11,052	409,852	1,600,951	276,764	557,023	945,861	3,396,690	159,323		
	New England.....	3,032	84,052	298,275	55,177	109,553	166,999	554,867	27,914		
	Middle Atlantic.....	8,020	325,800	1,302,675	221,586	447,469	778,862	2,841,823	131,408		
	North Central.....	14,274	608,619	2,440,629	429,495	889,630	1,548,526	5,115,794	295,517		
	East North Central.....	9,422	391,908	1,586,879	274,814	564,946	981,007	3,447,433	194,767		
	West North Central.....	4,852	216,710	853,750	154,680	324,683	567,519	1,668,361	100,749		
	South.....	10,896	394,128	1,233,893	265,386	543,875	689,262	2,800,372	181,879		
	South Atlantic.....	4,813	186,465	568,862	126,189	256,340	312,634	1,236,284	92,193		
	East South Central.....	2,302	80,621	261,987	54,014	111,536	150,858	642,297	34,972		
	West South Central.....	3,781	127,041	403,044	85,182	175,998	225,770	921,791	54,713		
	West.....	6,152	234,603	926,025	166,593	326,132	575,420	2,087,361	152,330		
	Mountain.....	1,738	44,420	157,241	31,440	64,015	99,130	325,188	24,835		
	Pacific.....	4,414	190,183	768,784	135,152	262,116	476,290	1,762,172	127,495		
21	Tobacco manufactures:										
	United States, total.....	627	94,863	259,689	87,073	162,988	219,736	988,001	28,018	111,782	641,356
	Northeast.....	292	22,477	55,121	20,769	38,059	47,787	120,921	2,330	28,306	107,623
	New England.....	45	876	2,035	764	1,288	1,483	3,991	229	1,379	3,957
	Middle Atlantic.....	247	21,600	53,085	20,004	36,770	46,304	116,929	2,100	26,927	103,666
	North Central.....	95	4,738	13,198	4,143	7,560	10,045	36,393	399	7,849	38,071
	East North Central.....	84	4,034	(D)	3,551	(D)	(D)	(D)	(D)	(D)	(D)
	West North Central.....	11	704	(D)	592	(D)	(D)	(D)	(D)	(D)	(D)
	South.....	226	67,289	190,369	61,864	116,887	161,208	829,234	25,238	75,627	495,662
	South Atlantic.....	163	53,711	150,802	49,207	92,038	126,917	644,244	17,617		
	East South Central.....	57	12,391	37,429	11,525	22,964	32,329	180,858	7,595		
	West South Central.....	6	1,187	2,137	1,130	1,885	1,962	4,131	26		
	West.....	14	357	1,001	296	481	694	1,453	49		
	Mountain.....	...	...	...	...	...	...	...	...		
	Pacific.....	14	357	1,001	296	481	694	1,453	49		
22	Textile mill products:										
	United States, total.....	8,070	1,037,440	3,032,490	947,502	1,821,075	2,526,564	4,748,586	225,914	1,232,293	5,322,899
	Northeast.....	5,093	381,299	1,288,035	336,909	655,587	1,021,459	2,032,232	73,229	574,217	2,595,258
	New England.....	1,383	168,194	558,124	149,959	294,738	453,406	844,484	27,316	281,939	1,224,525
	Middle Atlantic.....	3,710	213,105	729,910	186,949	360,849	568,052	1,187,747	45,913	292,278	1,370,733
	North Central.....	445	42,191	146,241	35,586	69,014	105,224	250,460	8,728	54,658	243,984
	East North Central.....	370	35,535	125,977	30,191	58,854	91,251	218,079	7,435	46,284	215,705
	West North Central.....	75	6,656	20,264	5,394	10,159	13,973	32,381	1,292	8,374	28,279
	South.....	2,296	604,848	1,564,789	567,500	1,081,560	1,376,152	2,407,461	141,139	593,820	2,434,230
	South Atlantic.....	1,873	501,674	1,311,353	470,564	900,017	1,154,635	2,009,533	120,074	484,285	2,021,825
	East South Central.....	321	88,715	216,983	83,520	154,580	190,260	340,936	17,396	97,002	368,172
	West South Central.....	102	14,458	36,453	13,415	26,962	31,257	56,991	3,669	12,533	44,233
	West.....	236	9,101	33,424	7,506	14,913	23,727	58,432	2,816	9,598	49,427
	Mountain.....	11	379	1,133	318	652	786	1,515	43	633	1,604
	Pacific.....	225	8,721	32,290	7,187	14,260	22,941	56,917	2,773	8,965	47,823
23	Apparel and related products:										
	United States, total.....	31,372	1,190,064	3,201,795	1,069,867	1,898,999	2,521,135	5,147,371	76,552	1,081,670	4,439,597
	Northeast.....	22,707	701,798	2,018,121	629,842	1,104,860	1,588,797	3,241,795	32,379	667,762	2,967,206
	New England.....	1,874	86,849	226,900	79,304	141,735	184,377	362,163	4,576	74,394	275,880
	Middle Atlantic.....	20,833	614,949	1,791,220	550,537	963,125	1,404,420	2,879,631	27,803	593,368	2,691,326
	North Central.....	3,309	162,805	450,472	141,368	252,370	333,540	707,320	16,826	181,088	694,582
	East North Central.....	2,406	110,567	316,448	95,201	168,962	231,606	495,060	13,198	126,956	508,445
	West North Central.....	903	52,237	134,024	46,166	83,406	101,933	212,260	3,627	54,132	186,137
	South.....	2,778	259,303	540,502	240,481	438,526	450,984	869,544	21,362	181,771	561,215
	South Atlantic.....	1,571	134,933	293,113	124,376	226,333	242,669	468,739	12,734	99,733	328,565
	East South Central.....	519	82,028	158,300	77,468	141,518	137,586	256,962	5,230	50,779	135,152
	West South Central.....	688	42,341	89,083	38,635	70,674	70,727	143,843	3,398	31,259	97,498
	West.....	2,578	66,156	192,700	58,176	103,243	147,811	328,711	5,984	51,049	216,594
	Mountain.....	192	4,546	10,220	3,980	7,159	7,732	16,539	392	3,244	9,824
	Pacific.....	2,386	61,610	182,480	54,195	96,083	140,079	312,171	5,592	47,805	206,770

See footnotes at end of table.



Table 6B.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS FOR INDUSTRY GROUPS BY REGIONS AND DIVISIONS: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Code	Major industry group, region and division <sup>1</sup>	Establishments, number	1954							1947	
			All employees		Production workers			Value added by manufacture	Capital expenditures, new	All employees, number	Value added by manufacture
			Number	Payroll (\$1,000)	Number	Man-hours ((1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
24	Lumber and wood products:										
	United States, total.....	41,484	645,936	1,933,523	581,920	1,106,955	1,604,859	3,188,409	217,361		
	Northeast.....	6,913	74,342	213,594	64,787	129,864	169,331	327,250	18,590		
	New England.....	3,541	36,759	96,981	32,552	65,570	80,147	145,890	9,526		
	Middle Atlantic.....	3,372	37,583	116,613	32,234	64,294	89,184	181,359	9,064		
	North Central.....	6,116	89,948	292,114	76,508	150,248	219,272	458,677	20,945		
	East North Central....	4,302	66,020	216,759	56,266	111,257	162,080	340,851	16,234		
	West North Central....	1,814	23,927	75,354	20,241	38,990	57,191	117,825	4,711		
	South.....	18,501	275,327	569,288	253,181	479,303	477,964	915,019	58,033		
	South Atlantic.....	10,308	135,102	268,860	124,225	228,252	224,843	431,308	26,940		
	East South Central....	4,883	76,290	155,767	70,234	131,496	130,182	259,825	13,567		
	West South Central....	3,310	63,934	144,660	58,721	119,555	122,939	223,885	17,524		
	West.....	9,954	206,317	858,526	187,444	347,538	738,291	1,487,462	119,792		
	Mountain.....	1,618	27,418	102,457	24,947	47,791	88,674	172,093	19,712		
	Pacific.....	8,336	178,899	756,068	162,497	299,746	649,616	1,315,369	100,080		
										(4)	(4)
25	Furniture and fixtures:										
	United States, total.....	10,273	340,694	1,197,376	286,649	571,294	892,891	1,966,410	61,945	316,273	1,346,277
	Northeast.....	3,532	89,657	326,327	74,983	148,852	244,692	539,263	14,038	80,723	366,045
	New England.....	743	19,978	69,232	16,839	33,757	51,478	108,252	2,940	17,992	74,095
	Middle Atlantic.....	2,789	69,678	257,094	58,143	115,095	193,214	431,010	11,098	62,731	291,950
	North Central.....	2,423	115,987	455,295	95,566	189,942	335,521	738,302	25,897	123,335	545,090
	East North Central....	1,926	102,142	404,039	84,169	167,733	299,298	655,879	23,785	108,935	488,717
	West North Central....	497	13,844	51,255	11,397	22,209	36,222	82,423	2,112	14,400	56,373
	South.....	2,515	105,990	300,102	91,663	185,501	225,308	494,604	17,250	85,503	309,239
	South Atlantic.....	1,330	68,105	191,424	59,160	119,374	144,811	320,699	10,173	55,726	206,559
	East South Central....	452	20,214	57,795	17,450	35,908	42,841	87,631	3,417	18,217	59,313
	West South Central....	733	17,670	50,883	15,053	30,218	37,655	86,273	3,660	11,560	43,367
	West.....	1,803	29,059	115,650	24,435	46,998	87,369	194,240	4,759	26,712	125,903
	Mountain.....	232	1,819	6,716	1,531	3,062	4,826	11,130	310	1,593	5,761
	Pacific.....	1,571	27,240	108,934	22,904	43,935	82,543	183,109	4,449	25,119	120,142
26	Pulp, paper and products:										
	United States, total.....	5,004	530,210	2,217,420	435,727	919,940	1,656,720	4,580,944	532,723	454,075	2,913,197
	Northeast.....	2,406	198,513	813,979	163,192	346,998	599,996	1,504,747	143,761	190,400	1,127,329
	New England.....	649	70,377	281,969	58,131	125,423	210,718	518,429	71,243	69,345	397,013
	Middle Atlantic.....	1,757	128,136	532,009	105,061	221,574	389,277	986,317	72,518	121,055	730,316
	North Central.....	1,414	168,974	731,184	136,414	288,374	533,613	1,432,218	108,068	148,804	942,615
	East North Central....	1,159	138,108	601,473	113,100	239,566	447,224	1,146,876	87,281	122,989	776,060
	West North Central....	255	30,866	129,711	23,314	48,808	86,389	285,342	20,786	25,815	166,555
	South.....	691	118,599	475,337	99,438	210,333	367,837	1,158,109	198,962	84,534	585,462
	South Atlantic.....	393	63,025	249,954	52,168	109,535	189,695	637,445	135,555	46,076	312,508
	East South Central....	133	25,821	103,053	22,037	46,670	81,527	234,465	40,121	16,087	116,864
	West South Central....	165	29,752	122,329	25,232	54,127	96,614	286,198	23,285	22,371	156,090
	West.....	493	44,122	196,919	36,682	74,234	155,272	485,869	81,931	30,337	257,791
	Mountain.....	28	1,548	6,495	1,284	2,659	4,910	17,565	2,928	782	4,758
	Pacific.....	465	42,573	190,424	35,398	71,575	150,362	468,304	79,003	29,555	253,033
27	Printing and publishing:										
	United States, total.....	32,531	804,386	3,625,133	499,666	961,465	2,115,344	6,264,558	236,897	715,120	4,248,773
	Northeast.....	10,989	314,491	1,463,040	191,003	365,381	813,954	2,627,404	78,917	295,132	1,836,940
	New England.....	2,151	59,986	248,709	39,674	75,219	153,198	396,781	17,115	54,169	281,179
	Middle Atlantic.....	8,838	254,505	1,214,331	151,329	290,162	660,755	2,230,623	61,801	240,963	1,555,761
	North Central.....	10,899	288,304	1,316,823	184,891	356,796	802,443	2,202,850	96,945	255,881	1,505,316
	East North Central....	7,329	218,091	1,028,416	141,218	274,406	636,091	1,712,835	73,998	195,263	1,169,861
	West North Central....	3,570	70,213	288,407	43,673	82,390	166,352	490,014	22,946	60,618	335,455
	South.....	6,262	121,645	480,352	76,462	152,487	286,265	820,467	36,953	99,185	518,678
	South Atlantic.....	2,870	61,941	249,179	38,170	74,912	143,862	416,094	17,703	49,335	262,272
	East South Central....	1,145	23,941	95,008	16,166	32,490	61,547	159,411	7,378	20,854	102,083
	West South Central....	2,247	35,762	136,163	22,126	45,084	80,855	244,960	11,872	28,996	154,323
	West.....	4,381	79,946	364,917	47,309	86,800	212,681	613,836	24,080	64,922	387,839
	Mountain.....	973	14,725	58,561	9,367	17,547	37,181	102,449	6,137	11,842	59,784
	Pacific.....	3,408	65,221	306,356	37,941	69,252	175,499	511,387	17,942	53,080	328,055
28	Chemicals and products:										
	United States, total.....	11,075	739,389	3,407,199	501,272	1,016,053	2,005,627	9,443,629	926,613	626,415	5,317,001
	Northeast.....	3,674	222,269	1,031,033	147,156	296,910	585,866	2,837,279	192,983	220,359	1,848,248
	New England.....	710	27,586	122,729	18,554	37,417	70,139	332,811	24,271	28,541	217,537
	Middle Atlantic.....	2,964	194,682	908,303	128,601	259,493	515,727	2,504,467	168,711	191,818	1,630,711
	North Central.....	3,232	206,719	973,439	139,272	280,826	567,736	2,693,493	231,566	174,834	1,672,359
	East North Central....	2,351	166,300	797,959	111,519	226,029	460,329	2,163,190	176,257	142,319	1,344,035
	West North Central....	881	40,419	175,480	27,753	54,796	107,406	530,303	55,308	32,515	328,324
	South.....	2,635	252,249	1,119,638	178,623	366,112	698,454	3,194,542	458,041	196,774	1,459,857
	South Atlantic.....	1,286	125,713	541,069	87,437	177,118	324,464	1,418,161	149,155	108,706	778,942
	East South Central....	515	65,328	288,814	47,235	96,956	183,758	730,644	72,194	45,975	291,949
	West South Central....	834	61,208	289,754	43,949	92,038	190,230	1,045,737	236,690	42,093	388,966
	West.....	1,534	58,150	283,088	36,221	72,203	153,570	718,313	44,022	34,448	336,537
	Mountain.....	218	13,988	67,500	8,131	16,573	34,270	158,860	11,967	3,864	29,059
	Pacific.....	1,316	44,162	215,588	28,089	55,630	119,299	559,453	32,055	30,584	307,478

See footnotes at end of table.

## GENERAL SUMMARY

Table 6B.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS FOR INDUSTRY GROUPS BY REGIONS AND DIVISIONS: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Code	Major industry group, region and division <sup>1</sup>	1954							1947		
		Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours ((1,000)	Wages (\$1,000)				
29	Petroleum and coal products:										
	United States, total.....	1,381	215,843	1,101,814	163,811	322,947	778,408	2,582,613	753,184	207,618	1,990,944
	Northeast.....	374	52,261	263,555	39,970	77,948	186,576	524,075	145,191	54,234	535,338
	New England.....	51	3,206	16,315	2,479	5,478	11,611	31,196	4,798	2,468	27,906
	Middle Atlantic.....	323	49,054	247,239	37,491	72,469	174,965	492,878	140,392	51,766	507,432
	North Central.....	424	58,925	299,586	45,509	90,922	216,556	727,011	183,528	56,340	500,923
	East North Central.....	321	49,520	253,830	38,406	76,515	184,144	621,713	157,692	47,841	425,121
	West North Central.....	103	9,404	45,756	7,102	14,406	32,412	105,298	25,836	8,499	75,802
	South.....	358	76,686	393,527	58,113	113,627	278,892	945,922	270,899	69,559	684,982
	South Atlantic.....	105	7,292	33,818	5,841	11,371	24,796	76,630	23,211	5,907	48,041
	East South Central.....	58	5,415	23,988	4,502	8,837	18,484	91,718	8,555	4,572	57,991
	West South Central.....	195	63,979	335,720	47,770	93,418	235,612	777,573	239,131	59,080	578,950
	West.....	225	27,970	145,144	20,217	40,450	96,382	385,604	153,565	27,485	269,701
	Mountain.....	64	7,009	35,311	5,224	10,428	25,193	102,381	21,542	5,470	52,093
	Pacific.....	161	20,961	109,833	14,992	30,021	71,188	283,223	132,022	22,015	217,608
30	Rubber products:										
	United States, total.....	1,406	246,526	1,059,337	196,238	377,414	775,499	1,903,702	128,431	258,237	1,299,491
	Northeast.....	504	81,573	334,441	65,081	128,855	242,936	611,049	37,694	86,046	435,043
	New England.....	201	44,551	179,989	35,709	71,125	131,092	324,141	17,970	45,249	224,544
	Middle Atlantic.....	303	37,021	154,451	29,371	57,730	111,844	286,907	19,723	40,797	210,499
	North Central.....	490	116,884	521,087	91,907	169,929	375,159	845,714	58,884	130,166	614,645
	East North Central.....	412	109,315	491,110	85,631	158,129	351,591	765,772	50,529	124,381	583,613
	West North Central.....	78	7,569	29,977	6,276	11,799	23,567	79,941	8,355	5,785	31,032
	South.....	181	26,014	103,997	21,896	43,367	82,852	262,813	13,542		
	South Atlantic.....	93	10,835	37,724	8,792	17,334	27,533	74,843	3,487		
	East South Central.....	47	11,586	50,130	9,987	19,416	41,625	131,437	6,790		
	West South Central.....	41	3,592	16,142	3,116	6,615	13,693	56,532	3,264	42,025	249,803
	West.....	231	22,054	99,811	17,352	35,263	74,551	184,126	18,310		
	Mountain.....	13	5,310	(D)	3,836	(D)	(D)	(D)	(D)		
	Pacific.....	218	16,744	(D)	13,516	(D)	(D)	(D)	(D)		
31	Leather and leather goods:										
	United States, total.....	4,845	356,578	1,027,314	321,161	586,857	833,694	1,637,417	28,053	383,264	1,533,028
	Northeast.....	3,342	213,410	622,094	192,515	351,624	503,556	928,888	14,103	219,590	920,956
	New England.....	1,161	110,090	321,419	99,076	177,057	258,004	477,162	7,190	109,177	453,849
	Middle Atlantic.....	2,181	103,319	300,674	93,439	174,566	245,551	451,725	6,912	110,413	467,107
	North Central.....	786	97,935	282,566	87,704	158,343	229,113	489,514	8,028	120,745	448,744
	East North Central.....	552	58,861	183,526	52,086	95,711	146,502	307,433	5,742	75,350	319,969
	West North Central.....	234	39,073	99,040	35,617	62,632	82,610	182,081	2,286	45,395	128,775
	South.....	392	36,461	89,993	33,530	62,150	76,939	161,947	3,458	35,090	129,967
	South Atlantic.....	168	15,099	40,958	13,535	25,610	33,342	62,827	2,257	17,686	70,128
	East South Central.....	94	14,113	33,919	13,229	24,749	30,303	71,787	714	14,311	50,496
	West South Central.....	130	7,248	15,116	6,766	11,791	13,292	27,331	486	3,093	9,343
	West.....	325	8,771	32,660	7,410	14,738	24,084	57,067	2,463	7,839	33,361
	Mountain.....	47	1,983	8,719	1,602	3,723	6,390	18,507	613	1,319	4,811
	Pacific.....	278	6,788	23,941	5,807	11,015	17,694	38,559	1,849	6,520	28,550
32	Stone, clay, and glass products:										
	United States, total.....	11,162	491,814	1,938,085	412,031	827,012	1,496,029	3,821,659	300,647	461,037	2,298,521
	Northeast.....	3,094	158,967	648,875	130,383	261,053	488,674	1,193,085	87,204	160,926	793,490
	New England.....	674	23,734	95,321	18,361	37,173	66,957	160,043	8,692	21,569	108,573
	Middle Atlantic.....	2,420	135,232	553,554	112,022	223,879	421,717	1,033,041	78,512	139,357	684,917
	North Central.....	3,669	175,674	723,627	147,864	299,959	567,717	1,433,606	112,005	159,926	838,231
	East North Central.....	2,736	143,385	593,418	121,272	243,369	466,980	1,147,760	91,632	131,877	689,435
	West North Central.....	933	32,289	130,208	26,592	56,590	100,737	285,846	20,373	28,049	148,796
	South.....	2,768	111,373	375,001	96,042	191,101	294,942	784,926	61,496	102,056	456,552
	South Atlantic.....	1,477	61,378	205,023	53,274	104,005	162,564	385,248	28,511	60,530	259,044
	East South Central.....	603	22,899	73,865	19,774	38,830	57,618	157,902	14,191	20,640	89,625
	West South Central.....	688	27,096	96,113	22,992	48,265	74,759	241,775	18,793	20,886	107,883
	West.....	1,631	45,799	190,581	37,740	74,898	144,695	410,040	39,941	38,129	210,248
	Mountain.....	356	8,085	31,563	6,673	13,700	24,036	75,671	5,808	6,345	31,891
	Pacific.....	1,275	37,714	159,018	31,067	61,197	120,658	334,368	34,132	31,784	178,357
33	Primary metal industries:										
	United States, total.....	5,838	1,117,059	5,097,466	938,511	1,812,027	3,985,548	9,372,910	831,095	1,158,158	5,733,028
	Northeast.....	1,951	403,595	1,811,639	334,170	634,947	1,389,251	3,084,079	223,689	440,590	2,094,762
	New England.....	537	54,207	238,927	44,699	88,464	179,821	419,170	23,922	62,029	289,386
	Middle Atlantic.....	1,414	349,387	1,572,712	289,470	546,482	1,209,429	2,664,909	199,766	378,561	1,805,376
	North Central.....	2,438	479,242	2,242,998	405,103	783,082	1,761,369	4,055,084	406,026	503,783	2,529,964
	East North Central.....	2,132	454,065	2,136,134	383,537	741,034	1,678,048	3,872,786	395,673	477,781	2,414,950
	West North Central.....	306	25,177	106,864	21,566	42,047	83,320	182,297	10,353	26,002	115,014
	South.....	654	152,681	671,573	130,848	258,632	541,673	1,417,760	142,608	145,989	706,347
	South Atlantic.....	251	64,447	292,481	54,669	107,315	233,926	639,486	47,722	64,737	322,532
	East South Central.....	174	55,546	235,100	47,869	93,188	190,031	470,016	63,251	62,474	287,693
	West South Central.....	229	32,687	143,991	28,309	58,128	117,715	308,258	31,634	18,778	96,122
	West.....	795	81,540	371,254	68,389	135,365	293,254	815,985	58,771	67,796	401,951
	Mountain.....	101	27,045	117,915	22,843	44,338	94,992	264,983	18,822	23,094	134,273
	Pacific.....	694	54,495	253,339	45,546	91,026	198,262	551,002	39,949	44,702	267,682

See footnotes at end of table.



## GENERAL SUMMARY

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Table 6B.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS FOR INDUSTRY GROUPS BY REGIONS AND DIVISIONS: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Code	Major industry group, region and division <sup>1</sup>	Establishments, number	1954					1947			
			All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
34	Fabricated metal products:										
	United States, total.....	22,516	1,019,406	4,397,337	821,172	1,652,366	3,174,186	7,596,275	432,491	973,174	4,920,304
	Northeast.....	8,389	347,655	1,453,951	282,327	566,197	1,055,043	2,497,157	115,078	355,314	1,714,319
	New England.....	2,149	92,743	369,182	75,635	152,534	268,314	624,379	23,480	109,005	506,235
	Middle Atlantic.....	6,240	254,911	1,084,768	206,692	413,663	786,728	1,872,778	91,598	246,309	1,208,084
	North Central.....	8,269	456,602	2,060,434	366,543	741,458	1,482,442	3,514,009	220,535	452,621	2,396,083
	East North Central....	7,016	407,205	1,852,995	327,917	663,734	1,340,183	3,145,844	201,143	407,820	2,164,248
	West North Central....	1,253	49,396	207,439	38,626	77,724	142,259	368,164	19,392	44,801	231,835
	South.....	2,632	125,245	476,425	101,142	203,798	345,326	879,688	51,488	100,388	457,279
	South Atlantic.....	1,142	53,194	200,312	43,236	85,907	146,527	376,930	20,281	45,175	207,130
	East South Central....	543	39,946	147,684	33,119	66,058	111,886	276,725	17,609	33,911	144,419
	West South Central....	947	32,105	128,427	24,786	51,832	86,912	226,032	13,596	21,302	105,730
	West.....	3,226	89,902	406,525	71,159	140,912	291,374	705,421	45,389	64,851	352,623
	Mountain.....	329	6,914	28,154	5,207	10,457	19,308	45,281	3,132	4,361	22,460
	Pacific.....	2,897	82,987	378,370	65,951	130,454	272,065	660,139	42,256	60,490	330,163
35	Machinery, except electrical:										
	United States, total.....	25,601	1,541,675	7,190,563	1,171,323	2,369,610	4,979,972	12,338,923	713,808	1,552,135	7,833,970
	Northeast.....	8,092	519,921	2,354,097	390,610	787,144	1,614,861	4,021,678	198,970	541,891	2,619,783
	New England.....	2,425	179,324	784,000	137,803	277,729	556,322	1,312,335	59,795	201,583	930,555
	Middle Atlantic.....	5,667	340,596	1,570,097	252,806	509,415	1,058,538	2,709,343	139,174	340,308	1,689,228
	North Central.....	11,055	820,689	3,947,936	628,756	1,272,446	2,770,084	6,729,683	381,884	855,981	4,450,826
	East North Central....	9,419	728,526	3,555,422	559,099	1,133,632	2,503,024	6,046,137	341,275	764,931	4,010,107
	West North Central....	1,636	92,163	392,514	69,657	138,814	267,059	683,546	40,608	91,050	440,719
	South.....	2,693	115,680	484,389	88,004	180,285	320,467	881,940	101,548	86,642	404,314
	South Atlantic.....	1,043	39,390	155,820	30,104	61,146	100,862	243,161	17,528	31,231	134,846
	East South Central....	442	29,911	124,825	22,972	45,979	84,524	224,179	61,564	23,692	94,514
	West South Central....	1,208	46,378	203,743	34,927	73,159	135,080	414,599	22,455	31,719	174,954
	West.....	3,761	85,384	404,139	63,951	129,734	274,559	705,621	31,404	67,621	359,047
	Mountain.....	322	7,857	32,621	5,900	11,847	21,535	54,989	2,968	6,075	29,548
	Pacific.....	3,439	77,527	371,518	58,051	117,886	253,023	650,631	28,436	61,546	329,499
36	Electrical machinery:										
	United States, total.....	5,758	959,126	3,950,994	722,443	1,422,339	2,645,588	7,403,134	340,677	796,357	3,860,235
	Northeast.....	2,547	453,564	1,857,063	336,608	663,839	1,219,615	3,552,131	141,072	384,146	1,810,670
	New England.....	603	120,847	457,698	91,587	185,454	306,355	885,454	33,131	96,048	451,237
	Middle Atlantic.....	1,944	332,716	1,399,364	245,020	478,384	913,259	2,666,677	107,940	288,098	1,359,433
	North Central.....	1,940	392,338	1,645,420	302,932	592,948	1,131,576	3,003,371	134,877	362,638	1,795,714
	East North Central....	1,668	351,336	1,481,974	271,902	531,508	1,021,827	2,719,985	124,115	328,189	1,640,355
	West North Central....	272	41,001	163,445	31,029	61,439	109,748	283,386	10,761	34,449	155,359
	South.....	443	57,382	212,789	42,970	84,194	137,337	415,575	44,084	29,908	136,498
	South Atlantic.....	229	33,094	128,825	22,875	44,654	76,231	240,027	32,606	20,866	94,726
	East South Central....	100	16,484	55,336	14,040	26,957	41,792	115,326	8,620	6,742	27,663
	West South Central....	114	7,803	28,628	6,054	12,582	19,313	60,221	2,856	2,300	14,109
	West.....	828	55,841	235,721	39,932	81,357	157,060	432,054	20,643	19,665	117,353
	Mountain.....	36	1,134	3,732	954	1,816	2,762	6,258	370	507	1,864
	Pacific.....	792	54,707	231,989	38,978	79,540	154,298	425,796	20,273	19,158	115,489
37	Transportation equipment:										
	United States, total.....	5,348	1,704,572	8,295,773	1,327,078	2,714,603	6,003,250	13,925,983	924,646	1,174,498	5,841,722
	Northeast.....	1,296	355,997	1,734,003	273,457	562,661	1,234,971	2,874,418	152,694	250,297	1,151,806
	New England.....	414	92,301	428,176	71,550	147,232	309,054	686,722	22,359	51,580	206,974
	Middle Atlantic.....	882	263,696	1,305,827	201,907	415,428	925,916	2,187,696	130,335	198,717	944,832
	North Central.....	1,832	823,148	4,012,880	660,257	1,352,102	3,038,395	7,124,703	662,569	669,319	3,516,603
	East North Central....	1,507	709,928	3,488,010	574,751	1,173,026	2,659,134	6,122,192	641,511	628,064	3,272,893
	West North Central....	325	113,220	524,870	85,505	179,076	379,260	1,002,511	21,058	41,255	243,710
	South.....	931	199,753	914,169	158,574	315,565	667,261	1,438,282	46,593	116,666	524,338
	South Atlantic.....	465	97,583	452,574	77,329	156,703	331,203	800,181	22,974	63,631	286,812
	East South Central....	126	26,047	106,873	21,717	40,172	80,978	173,411	3,985	21,285	104,804
	West South Central....	340	76,123	354,721	59,526	118,690	255,078	464,688	19,633	31,750	132,722
	West.....	1,289	325,672	1,634,719	234,789	484,273	1,062,622	2,488,579	62,790	138,216	648,975
	Mountain.....	62	7,394	36,007	6,201	13,172	28,781	49,952	1,023	1,114	5,229
	Pacific.....	1,227	318,278	1,598,712	228,587	471,101	1,033,840	2,438,626	61,767	137,102	643,746
38	Instruments and related products:										
	United States, total.....	3,142	272,586	1,200,322	195,597	391,403	759,459	2,128,706	94,008	244,872	1,140,499
	Northeast.....	1,512	167,860	760,842	119,969	238,369	477,436	1,335,411	65,617	162,881	772,465
	New England.....	302	36,599	143,394	27,563	54,637	94,275	256,254	10,887	37,212	171,358
	Middle Atlantic.....	1,210	131,261	617,448	92,406	183,732	383,161	1,079,156	54,730	125,669	601,107
	North Central.....	840	78,257	330,325	55,721	113,512	209,492	598,948	16,562	65,862	302,646
	East North Central....	688	60,938	256,694	44,096	89,934	166,748	457,366	12,484	(D)	(D)
	West North Central....	152	17,319	73,631	11,625	23,577	42,744	141,582	4,077	(D)	(D)
	South.....	294	11,307	40,503	8,999	17,732	28,049	69,728	2,638	8,448	30,903
	South Atlantic.....	135	5,121	17,606	3,963	7,762	11,407	27,147	956	2,949	9,585
	East South Central....	39	3,390	12,654	2,827	5,588	9,872	19,672	632	3,015	13,319
	West South Central....	120	2,795	10,242	2,209	4,381	6,769	22,908	1,049	2,484	7,999
	West.....	496	15,161	68,651	10,906	21,788	44,480	124,618	9,190	7,681	34,485
	Mountain.....	58	863	3,049	644	1,152	1,984	5,175	241	399	1,902
	Pacific.....	438	14,297	65,602	10,262	20,635	42,496	119,443	8,948	7,282	32,583

See footnotes at end of table.

## GENERAL SUMMARY

Table 6B.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS FOR INDUSTRY GROUPS BY REGIONS AND DIVISIONS: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Code	Major industry group, region and division <sup>1</sup>	1954								1947	
		Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (11,000)	Wages (\$1,000)				
39	Miscellaneous manufactures <sup>5</sup> :										
	United States, total.....	517,010	695,917	2,658,182	555,746	1,089,229	1,861,873	4,473,050	176,036	463,390	2,066,259
	Northeast.....	9,246	367,040	1,361,525	296,058	576,835	952,955	2,279,833	80,251	285,848	1,306,326
	New England.....	1,980	119,031	416,749	98,657	194,082	304,940	683,749	26,901	107,000	467,913
	Middle Atlantic.....	7,266	248,008	944,775	197,401	382,751	648,013	1,596,084	53,348	178,848	838,413
	North Central.....	4,015	211,200	848,807	167,473	331,417	601,290	1,455,539	53,267	132,915	587,470
	East North Central....	3,145	154,036	(D)	121,064	(D)	(D)	(D)	(D)	110,150	493,383
	West North Central....	870	57,163	(D)	46,408	(D)	(D)	(D)	(D)	22,765	94,087
	South.....	1,708	61,616	211,769	49,606	98,378	147,176	333,133	29,167	26,162	87,979
	South Atlantic.....	815	27,262	91,131	21,207	42,022	59,238	148,732	7,637	15,512	50,461
	East South Central....	302	14,204	49,632	11,935	23,169	36,092	77,098	8,204	5,285	16,211
	West South Central....	591	20,149	71,004	16,462	33,185	51,844	107,301	13,323	5,365	21,307
	West.....	2,041	56,059	236,079	42,605	82,597	160,451	404,543	13,348	18,465	84,484
	Mountain.....	287	5,049	(D)	4,009	(D)	(D)	(D)	(D)	(D)	(D)
	Pacific.....	1,754	51,009	(D)	38,595	(D)	(D)	(D)	(D)	(D)	(D)

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>For definitions of the divisions, see table 4A.<sup>2</sup>The 1954 and 1947 "All industries" totals are not strictly comparable because of differences in coverage between the two years in major groups 20 and 24. (See footnote 4.)<sup>3</sup>The differences in coverage of establishments in the logging and fluid milk industries significantly affected the comparability of the "All industries" total, for four of the nine geographic divisions. Consequently 1947 "All manufacturing" totals are not shown in the table for these divisions. In the following table, comparable employment and value added by manufactures figures (excluding the establishments in the milk and logging industries) are shown for these divisions:

Division	1954		1947	
	All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
West South Central.....	688,183	5,549,166	546,083	3,008,043
Mountain.....	174,472	1,408,032	136,852	762,599
Pacific.....	1,298,588	10,723,201	906,862	5,496,961

<sup>4</sup>The 1954 Census coverage of establishments in Major Industry Group 20, Food and Kindred Products, and Major Industry Group 24, Lumber and Wood Products, are not comparable with the corresponding group figures published in 1947. In 1947, the Standard Industrial Classification of sub-group 202, Dairy Products differed from that used in 1954 chiefly in that the Industries 2026, Fluid Milk, and 2027, Fluid Milk and Other Products, were not included within the scope of manufacturing. Also, Logging Camps and Contractors, Industry 2411, were not included in the 1947 Census of Manufactures. They were, however, included in the 1954 Census (see Introduction for complete explanation). Comparable employment and value added by manufacture figures for the United States by Divisions for 1954 and 1947 for the Food and Kindred Products Industries (excluding Fluid Milk, Industry 2066, and Fluid Milk and Other Products, Industry 2027) and for the Wood Products group (excluding Logging Camps and Contractors, Industry 2411, are shown below:

Code	Area	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	UNITED STATES				
20	Food and kindred products, except Sub-group 202, Dairy Products.....	1,363,773	11,143,480	1,349,100	8,427,804
24	Lumber & wood prod., exc. Ind. 2411, Logging Camps & Contractors.....	570,426	2,798,479	641,799	2,520,402
	NEW ENGLAND				
20	Food and kindred products, except Sub-group 202, Dairy Products.....	64,000	412,000	66,361	339,023
24	Lumber & wood prod., exc. Ind. 2411, Logging Camps & Contractors.....	28,446	115,463	33,574	114,201
	MIDDLE ATLANTIC				
20	Food and kindred products, except Sub-group 202, Dairy Products.....	271,000	2,394,000	272,963	1,822,069
24	Lumber & wood prod., exc. Ind. 2411, Logging Camps & Contractors.....	35,869	173,892	37,335	142,888
	EAST NORTH CENTRAL				
20	Food and kindred products, except Sub-group 202, Dairy Products.....	317,648	2,821,551	321,150	2,161,720
24	Lumber & wood prod., exc. Ind. 2411, Logging Camps & Contractors.....	62,184	327,681	66,485	273,872
	WEST NORTH CENTRAL				
20	Food and kindred products, except Sub-group 202, Dairy Products.....	180,153	1,410,525	189,883	1,116,249
24	Lumber & wood prod., exc. Ind. 2411, Logging Camps & Contractors.....	21,481	110,048	21,054	78,517
	SOUTH ATLANTIC				
20	Food and kindred products, except Sub-group 202, Dairy Products.....	157,765	1,024,111	135,788	657,604
24	Lumber & wood prod., exc. Ind. 2411, Logging Camps & Contractors.....	120,464	387,774	139,700	383,814
	EAST SOUTH CENTRAL				
20	Food and kindred products, except Sub-group 202, Dairy Products.....	65,548	529,040	62,366	475,749
24	Lumber & wood prod., exc. Ind. 2411, Logging Camps & Contractors.....	71,056	244,865	98,747	285,087
	WEST SOUTH CENTRAL				
20	Food and kindred products, except Sub-group 202, Dairy Products.....	108,111	769,539	106,069	571,524
24	Lumber & wood prod., exc. Ind. 2411, Logging Camps & Contractors.....	57,732	204,268	90,924	272,233
	MOUNTAIN				
20	Food and kindred products, except Sub-group 202, Dairy Products.....	35,471	254,765	36,958	222,418
24	Lumber & wood prod., exc. Ind. 2411, Logging Camps & Contractors.....	23,346	145,403	20,930	100,538
	PACIFIC				
20	Food and kindred products, except Sub-group 202, Dairy Products.....	163,340	1,527,687	157,562	1,061,448
24	Lumber & wood prod., exc. Ind. 2411, Logging Camps & Contractors.....	149,849	1,089,085	133,050	869,252

<sup>5</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, Ordnance and Accessories. (Establishments which are Government-owned and operated are not included.)



# **CHAPTER II**

## **GEOGRAPHIC DIVISIONS**

10-1

## MANUFACTURES—AREA STATISTICS

## New England

Table 2.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Code	Industry group and industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manu- facture (\$1,000)	Value of ship- ments (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
22	Textile mill products--Continued												
228	Hats, except cloth and millinery.....	47	29	5,030	16,254	4,155	7,271	12,235	21,715	(2)	233	(D)	(D)
2281	Fur-felt hats and hat bodies	20	17	3,724	12,344	3,001	5,097	9,165	16,130	27,727	120	5,751	31,687
2282	Wool-felt hats & hat bodies.	4	2	821	2,446	730	1,322	1,978	3,321	6,324	(D)	(D)	(D)
2283	Straw hats.....	4	3	118	328	108	207	250	450	692	(D)	(D)	(D)
2284	Hatters' fur.....	19	7	367	1,136	314	643	841	1,813	3,918	41	828	4,332
229	Miscellaneous textile goods.....	265	119	12,210	44,696	10,368	20,949	32,974	80,347	(2)	3,907	13,728	68,414
2291	Felt goods, n.e.c.....	17	10	1,262	5,255	1,106	2,316	4,194	9,402	23,142	505	1,267	6,747
2293	Padding & upholstery filling	20	5	580	2,239	452	869	1,197	3,314	9,257	141	654	2,765
2294	Processed textile waste.....	81	28	1,734	5,528	1,453	3,145	3,972	10,224	30,285	586	1,588	6,547
2295	Coated fabric, except rubberized.....	37	20	1,804	7,788	1,378	3,020	5,060	13,130	37,948	492	2,583	13,612
2298	Cordage and twine.....	29	17	2,008	6,687	1,691	3,230	4,815	16,349	31,123	452	(D)	(D)
23	Apparel and related products.....	1,874	988	86,849	226,900	79,304	141,735	184,377	362,163	(2)	4,576	74,394	275,880
231	Men's and boys' suits and coats.....	110	56	6,886	21,620	6,212	10,873	17,418	29,088	(2)	261	9,640	37,383
2311	Men's and boys' suits and coats.....	104	54	6,766	21,357	6,097	10,683	17,187	28,629	56,469	(D)	9,453	36,513
2312	Suit and coat findings.....	6	2	120	263	115	190	231	458	1,170	(D)	187	870
232	Men's and boy's furnishings	270	128	12,388	29,945	11,418	19,937	24,705	43,864	(2)	419	14,145	46,147
2321	Men's dress shirts & nightwear.....	48	38	5,472	12,517	5,236	9,095	11,102	17,473	38,700	135	6,525	20,308
2323	Men's and boys' neckwear....	34	9	797	2,009	694	1,121	1,486	3,643	6,793	19	1,031	4,294
2327	Separate trousers.....	54	26	1,712	4,114	1,546	2,533	3,193	5,886	12,613	40	2,054	6,559
2329	Men's & boys' clothing, nec.	101	52	4,045	10,350	3,619	6,596	8,174	15,521	34,391	217	4,163	13,812
233	Women's and misses' outerwear.....	641	441	29,967	78,255	27,803	48,990	65,123	122,386	(2)	1,247	20,448	74,092
2331	Blouses.....	60	39	1,943	4,234	1,829	2,952	3,670	6,381	11,529	83	1,359	5,337
2333	Dresses, unit price.....	236	194	13,851	34,238	13,045	21,505	28,878	52,962	104,771	444	9,440	30,787
2334	Dresses, dozen price.....	66	48	4,249	9,989	3,929	6,985	8,202	14,756	31,479	108	3,706	12,257
2337	Women's suits, coats, and skirts.....	213	124	8,100	25,322	7,324	13,291	20,691	42,014	99,459	526	(D)	(D)
234	Women's undergarments....	120	86	12,034	30,637	10,969	20,420	25,235	57,860	(2)	695	10,884	40,666
2341	Women's and children's underwear.....	78	55	7,886	18,081	7,349	13,755	15,431	26,716	59,337	314	6,101	21,415
2342	Corsets and allied garments.	42	31	4,147	12,556	3,620	6,665	9,803	31,144	56,192	381	4,182	16,843
2351	Millinery.....	39	19	2,569	6,778	2,408	4,719	5,909	9,097	14,782	33	1,484	5,555
236	Children's outerwear.....	81	55	4,509	11,508	4,141	7,569	9,507	20,056	(2)	139	2,775	7,735
2361	Children's dresses.....	25	16	1,088	2,337	1,032	1,853	2,031	3,734	6,098	27	893	2,238
2363	Children's coats.....	14	12	895	2,554	821	1,484	2,096	3,412	6,851	22	551	1,708
2369	Children's outerwear, nec....	42	27	2,526	6,617	2,288	4,232	5,379	12,909	28,150	89	1,331	3,788
238	Miscellaneous apparel.....	146	80	7,265	18,403	6,589	11,317	14,657	29,677	(2)	204	4,834	16,140
2381	Fabric dress gloves.....	3	3	208	424	200	327	371	618	1,185	(D)	(D)	(D)
2383	Suspenders and garters.....	8	2	138	257	124	189	202	362	1,171	(D)	430	1,237
2384	Robes and dressing gowns....	25	17	1,654	3,934	1,563	2,533	3,276	6,365	12,785	20	1,231	3,765
2385	Waterproof outer garments....	45	27	2,698	6,841	2,430	4,292	5,534	10,886	20,713	69	1,595	5,168
2386	Leather and sheep-lined clothing.....	23	14	1,047	3,297	926	1,621	2,410	5,302	12,815	47	626	2,972
2387	Belts.....	29	10	847	2,090	732	1,284	1,600	3,420	6,639	43	315	1,315
2389	Apparel, nec.....	7	3	258	769	225	401	567	1,308	2,171	11	71	296
239	Fabricated textiles, nec..	450	119	11,159	29,556	9,703	17,808	21,657	49,791	(2)	1,574	9,990	47,147
2391	Curtains and draperies.....	77	39	3,782	9,052	3,426	6,193	6,917	15,120	44,912	276	2,276	9,098
2392	Housefurnishings, nec.....	76	25	2,272	6,739	1,896	3,498	4,791	12,196	39,377	244	4,186	22,932
2393	Textile bags.....	19	7	332	886	269	446	556	1,326	4,362	58	299	2,182
2394	Canvas products.....	103	7	719	1,903	577	1,116	1,377	3,023	5,987	63	696	2,150
2395	Tucking, pleating and stitching.....	21	7	344	850	321	565	745	1,275	1,586	33	(D)	(D)
2396	Trimings and art goods.....	34	11	1,181	3,438	966	1,878	2,232	6,008	15,884	173	977	4,544
2398	Embroideries, except schiffli.....	17	2	133	279	126	184	248	407	532	6	261	761
2399	Textile products, nec.....	99	19	2,300	6,109	2,033	3,741	4,571	10,079	20,126	715	1,004	4,457
24	Lumber & wood products..	3,541	397	36,759	96,981	32,552	65,570	80,147	145,890	(2)	9,526	(4)	(4)
2411	Logging camps and contractors.....	1,527	56	8,313	20,091	7,283	14,634	17,270	30,427	60,623	3,273	(4)	(4)
242	Lumber and basic products.	1,192	114	9,375	22,269	8,524	16,942	19,246	33,411	(2)	3,117	10,878	35,851
2421	Sawmills and planing mills..	1,178	111	9,094	21,543	8,261	16,360	18,604	31,792	70,541	3,067	10,697	35,295

See footnotes at end of table.



GEOGRAPHIC DIVISIONS  
New England

10-5

Table 2.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Code	Industry group and industry	1954								1947			
		Establishments, number		All employees		Production workers			Value added by manu- facture (\$1,000)	Value of ship- ments (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
24	Lumber and wood prod- ucts--Continued												
243	Millwork and related prod- ucts.....	259	54	4,974	16,516	4,202	8,808	12,561	24,374	(2)	1,000	4,484	16,291
2431	Millwork plants.....	232	35	2,850	10,479	2,248	4,589	7,388	14,944	32,530	481	2,784	10,507
2432	Plywood plants.....	16	16	1,930	5,399	1,789	3,893	4,647	8,273	18,653	473	1,301	4,769
2433	Prefabricated wood products.	11	3	193	638	164	325	526	1,156	2,641	45	399	1,015
244	Wooden containers.....	168	57	4,147	11,387	3,718	7,459	9,277	15,842	(2)	538	6,979	26,552
2442	Rattan and willow ware.....	10	4	220	539	200	401	466	639	1,088	5	(D)	(D)
2444	Wooden boxes.....	127	47	3,387	9,526	3,010	6,054	7,643	13,173	27,311	504	6,033	23,945
2445	Cooperage.....	26	5	452	1,119	427	858	1,016	1,736	3,116	14	675	2,003
249	Miscellaneous wood prod- ucts.....	395	115	9,948	26,717	8,824	17,725	21,791	41,834	(2)	1,596	11,233	35,507
2493	Mirror and picture frames...	24	6	353	1,011	280	502	676	1,575	2,411	24	263	1,039
2499	Wood products, nec.....	345	96	8,732	22,629	7,836	15,844	18,815	35,780	64,148	1,378	9,880	29,462
25	Furniture and fixtures..	743	231	19,978	69,232	16,839	33,757	51,478	108,252	(2)	2,940	17,992	74,095
251	Household furniture.....	535	184	16,079	55,718	13,614	27,171	41,236	86,846	(2)	2,385	12,183	48,901
2511	Wood furniture, not uphstd.	207	76	8,077	27,770	6,962	14,261	20,943	38,215	68,497	1,218	6,832	24,519
2512	Uphstd. household furniture	169	58	4,016	13,765	3,436	6,622	10,405	21,417	43,776	506	2,832	11,907
2514	Metal household furniture...	48	18	1,326	4,838	1,129	2,158	3,524	8,552	18,671	171	719	3,538
2515	Mattresses and bedsprings...	106	31	2,605	9,158	2,034	4,026	6,200	18,373	38,135	487	1,763	8,845
253	Public and professional furniture.....	23	7	602	2,147	498	1,051	1,622	3,105	(2)	119	(D)	(D)
2531	Public-building furniture...	17	6	546	1,946	451	959	1,474	2,835	4,906	(D)	(D)	(D)
2532	Professional furniture.....	6	1	56	201	47	92	147	270	484	(D)	39	145
2541	Partitions and fixtures...	96	26	1,915	7,453	1,566	3,231	5,624	11,475	19,991	205	1,761	7,098
256	Screens, shades, & blinds.	69	10	1,030	2,728	853	1,691	2,049	4,828	(2)	134	(D)	(D)
2562	Window shades.....	18	4	271	828	206	382	574	1,402	2,835	(D)	(D)	(D)
2563	Venetian blinds.....	43	6	726	1,793	620	1,262	1,402	3,231	6,915	93	400	1,613
259	Furniture & fixtures, nec.	16	3	262	783	230	433	626	1,285	(2)	(D)	99	328
2591	Restaurant furniture.....	11	2	203	619	179	347	508	1,029	1,949	(D)	(D)	(D)
26	Pulp, paper and products	649	422	70,377	281,969	58,131	125,423	210,718	518,429	(2)	71,243	69,345	397,013
261	Pulp, paper and board.....	161	158	35,170	151,630	29,865	67,066	120,059	289,744	(2)	55,221	34,584	209,385
2611	Pulp mills.....	30	28	6,258	26,026	5,377	12,200	21,553	49,791	141,661	20,204	6,588	36,829
2641	Paper coating and glazing.	50	29	4,182	17,636	3,348	7,471	12,531	29,773	80,201	1,496	4,613	30,060
2651	Envelopes.....	20	12	2,461	8,181	2,057	3,885	6,158	12,950	24,989	853	2,979	12,904
2661	Paper bags.....	24	11	1,696	5,515	1,423	2,790	4,142	8,961	24,912	394	727	3,463
267	Paperboard containers.....	226	141	14,765	53,208	12,318	25,379	38,488	89,101	(2)	4,018	13,091	65,438
2671	Paperboard boxes.....	201	129	13,685	49,686	11,358	23,339	35,677	83,391	191,011	3,658	12,166	61,659
2674	Fiber cans, tubes, drums, etc.....	25	12	1,079	3,521	959	2,039	2,810	5,710	11,180	360	925	3,779
269	Pulp, paper and products, nec.....	168	71	12,102	45,799	9,117	18,829	29,338	87,899	(2)	9,258	13,351	75,763
2691	Die-cut paper and board.....	34	9	616	2,169	520	1,251	1,569	3,482	7,091	150	558	2,876
2693	Wall paper.....	6	3	273	1,155	225	461	840	1,687	3,079	32	(D)	(D)
2694	Pulp goods, pressed & molded	4	4	1,321	4,847	1,128	2,305	4,003	11,187	17,774	1,911	(D)	(D)
2699	Paper & board products, nec.	124	55	9,891	37,628	7,243	14,812	22,925	71,541	156,060	7,164	11,329	64,093
27	Printing and publishing.	2,151	441	59,986	248,709	39,674	75,219	153,198	396,781	(2)	17,115	54,169	281,179
2711	Newspapers.....	390	123	20,747	93,156	10,852	19,904	49,559	146,341	204,069	3,874	17,857	103,107
2721	Periodicals.....	99	9	1,618	7,156	109	188	352	10,421	31,899	114	3,538	28,197
273	Books.....	110	28	5,137	21,457	3,300	6,219	12,421	48,316	(2)	2,018	4,384	27,102
2731	Books; publishing & printing	57	10	1,564	7,056	206	364	576	28,807	48,294	777	2,674	18,710
2732	Book printing.....	53	18	3,573	14,400	3,093	5,855	11,844	19,509	28,473	1,240	1,710	8,392
2741	Miscellaneous publishing..	54	16	1,816	6,775	1,013	1,868	3,337	11,248	17,400	318	1,116	4,337
2751	Commercial printing.....	967	120	14,387	56,574	11,564	22,560	42,226	83,705	131,373	4,402	13,014	55,442
2761	Lithographing.....	167	47	4,777	20,524	3,799	7,508	14,557	31,520	51,541	1,986	2,883	14,065
2771	Greeting cards.....	35	15	3,916	12,257	2,768	5,025	6,720	21,672	34,299	2,440	3,089	12,412
278	Bookbinding & related inds.	110	31	4,032	13,070	3,428	6,479	10,464	18,662	(2)	1,001	4,942	19,616
2781	Bookbinding.....	53	16	1,528	5,246	1,370	2,505	4,484	6,753	9,195	448	2,710	10,950
2782	Blankbooks and paper ruling.	33	9	1,005	3,167	800	1,487	2,167	4,793	8,925	180	873	(D)
2783	Loose-leaf binders and de- vices.....	8	3	1,330	4,186	1,102	2,179	3,399	6,268	10,868	333	1,191	(D)
2789	Miscellaneous bookbinding work.....	16	3	169	470	155	306	412	847	1,086	39	168	635

See footnotes at end of table.

**MANUFACTURES—AREA STATISTICS**  
**New England**

Table 2.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Code	Industry group and industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manu- facture (\$1,000)	Value of ship- ments (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
27	Printing and publishing—Continued												
279	Printing trade services...	219	52	3,550	17,738	2,837	5,465	13,559	24,893	(2)	960	3,346	16,901
2791	Typesetting.....	70	12	907	3,798	751	1,393	3,010	5,758	6,454	269	874	4,004
2792	Engraving and plate printing	52	10	836	3,393	680	1,422	2,474	5,042	6,814	110	682	2,643
2793	Photoengraving.....	80	21	1,244	7,324	956	1,799	5,639	9,569	11,442	357	1,322	7,409
2794	Electrotyping & stereotyping	17	9	557	3,217	438	836	2,421	4,516	5,508	215	468	2,845
28	Chemicals & products....	710	198	27,586	122,729	18,554	37,417	70,139	332,811	(2)	24,271	28,518	217,537
281	Inorganic chemicals.....	23	9	567	2,435	450	892	1,594	5,294	(2)	332	1,733	9,801
282	Organic chemicals.....	78	41	9,515	45,986	6,451	13,248	27,111	119,335	(2)	14,062	7,517	45,956
2822	Intermediates and organic colors.....	8	6	1,504	7,231	1,000	1,960	4,086	14,001	29,174	(D)	(NA)	(NA)
2823	Plastics materials.....	27	12	4,096	19,971	2,654	5,462	11,481	57,885	138,713	6,978	3,734	22,893
2829	Organic chemicals, nec.....	29	14	2,221	11,730	1,442	3,014	6,419	30,501	62,738	1,279	(NA)	(NA)
283	Drugs and medicines.....	72	23	3,252	13,965	2,402	4,969	8,742	41,003	(2)	3,992	2,278	24,695
284	Soap and related products.	182	31	4,152	19,397	2,458	4,752	9,278	65,878	(2)	2,745	5,141	54,328
2841	Soap and glycerin.....	29	9	1,836	8,111	1,311	2,463	5,262	38,281	69,216	495	2,280	34,316
2842	Cleaning and polishing products.....	130	19	2,104	9,982	1,043	2,095	3,576	24,917	46,988	2,198	2,507	16,446
2843	Sulfonated oils & assistants	23	3	211	1,303	103	194	438	2,679	5,952	52	354	3,571
285	Paints and allied products	111	28	2,636	11,244	1,558	3,112	5,255	24,861	(2)	719	2,707	18,413
2851	Paints and varnishes.....	100	26	2,472	10,701	1,424	2,829	4,871	23,478	53,024	687	2,541	17,331
287	Fertilizers.....	30	13	661	2,291	484	1,085	1,481	4,970	(2)	262	980	5,156
2871	Fertilizers.....	6	4	226	836	170	433	586	1,879	5,078	75	387	1,482
2872	Fertilizers, mixing only....	24	9	435	1,455	313	651	894	3,091	12,606	187	593	3,674
288	Vegetable and animal oils.	32	17	844	3,419	675	1,482	2,675	8,158	(2)	436	927	11,666
2886	Grease and tallow.....	22	13	677	2,717	538	1,139	2,089	7,027	15,993	369	(D)	(D)
2889	Animal oils, nec.....	10	4	167	702	137	343	585	1,130	3,649	67	(D)	(D)
289	Chemical products, nec....	174	36	5,915	23,823	4,047	7,831	13,933	62,908	(2)	1,696	7,187	46,763
2891	Printing ink.....	15	...	114	450	82	164	294	1,235	2,435	97	185	1,197
2893	Toilet preparations.....	28	8	1,872	6,805	1,169	2,268	3,294	26,723	43,234	403	1,940	9,977
2894	Glue and gelatin.....	32	12	1,653	7,614	1,236	2,444	5,097	17,094	37,391	561	1,961	17,342
2896	Compressed & liquified gases	12	5	308	1,145	163	336	592	2,773	3,829	303	286	(D)
2899	Chemical products, nec.....	74	11	1,877	7,542	1,334	2,531	4,539	14,613	30,299	294	2,739	16,084
29	Petroleum and coal products.....	51	19	3,206	16,315	2,479	5,478	11,611	31,196	(2)	4,798	2,468	27,906
295	Paving & roofing materials	31	9	1,132	5,546	965	2,419	4,560	12,304	(2)	570	977	(D)
2951	Paving mixtures and blocks..	25	5	372	1,818	295	704	1,290	4,223	11,254	426	(D)	(D)
2952	Roofing felts and coatings..	6	4	760	3,728	669	1,715	3,270	8,081	21,119	144	764	6,740
299	Petroleum and coal products, nec.....	13	4	243	1,317	119	259	478	2,597	(2)	(D)	193	1,609
30	Rubber products.....	201	109	44,551	179,989	35,709	71,125	131,092	324,141	(2)	17,970	45,249	224,544
3099	Rubber industries, nec....	189	98	27,311	108,542	21,504	42,859	75,721	192,073	354,053	9,103	20,645	98,336
31	Leather & leather goods.	1,161	670	110,090	321,419	99,076	177,057	258,004	477,162	(2)	7,190	109,177	453,849
3111	Leather tanning and finishing.....	214	101	12,704	49,418	11,191	21,427	40,124	78,556	206,205	2,395	14,567	129,625
3121	Industrial leather belting	30	7	651	2,313	503	929	1,490	4,562	7,526	124	1,023	6,133
3131	Footwear cut stock.....	367	164	11,687	33,769	10,141	18,637	25,173	50,183	135,124	1,074	10,870	49,155
314	Footwear, except rubber...	413	349	80,192	221,740	72,936	127,798	180,344	322,335	(2)	3,324	77,748	251,899
3141	Footwear, except rubber....	368	322	77,541	214,781	70,531	123,826	174,845	312,405	600,765	3,129	75,165	242,894
3142	House slippers.....	45	27	2,651	6,959	2,405	3,972	5,499	9,930	19,860	195	2,583	9,005
315	Leather gloves.....	8	4	290	606	256	488	517	787	(2)	5	251	633
3161	Luggage.....	30	14	1,094	3,235	975	1,830	2,397	5,205	10,538	82	834	3,526
317	Purses and small leather goods.....	56	22	2,904	8,815	2,612	5,054	6,869	13,190	(2)	(D)	3,167	10,706
3171	Handbags and purses.....	37	17	2,130	6,115	1,988	3,807	5,178	8,397	14,790	(D)	2,345	7,651
3172	Small leather goods.....	19	5	773	2,699	624	1,246	1,690	4,792	7,320	(D)	822	3,055
319	Miscellaneous leather goods	43	9	566	1,522	458	890	1,087	2,340	(2)	(D)	717	2,172
32	Stone, clay, and glass products.....	674	182	23,734	95,321	18,361	37,173	66,957	160,043	(2)	8,692	21,569	108,573
322	Pressed & blown glassware.	14	4	1,914	7,156	1,627	3,247	5,780	14,429	...	343	(D)	(D)
3229	Pressed & blown glass, nec..	14	4	1,914	7,156	1,627	3,247	5,780	14,429	19,729	343	(D)	(D)

See footnotes at end of table.



## GEOGRAPHIC DIVISIONS

10-7

## New England

Table 2.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Code	Industry group and industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
3231	Stone, clay, and glass products—Continued Products of purchased glass	43	9	942	3,050	718	1,328	1,933	4,422	8,062	149	2,712	11,895
325	Structural clay products..	35	22	1,246	4,527	1,083	2,386	3,607	6,363	(2)	567	1,009	3,559
3251	Brick and hollow tile.....	30	18	883	3,201	769	1,715	2,568	4,292	5,841	457	906	3,314
326	Pottery & related products	20	3	237	834	211	463	687	1,265	(2)	49	365	1,370
327	Concrete and plaster products.....	245	35	3,125	12,657	2,425	5,350	8,923	24,365	(2)	1,656	2,067	11,646
3271	Concrete products.....	231	25	2,237	8,982	1,704	3,643	6,124	16,025	29,762	1,329	1,475	7,615
3272	Gypsum products.....	3	3	437	1,821	336	834	1,358	5,743	10,297	50	(D)	(D)
329	Nonmet. mineral prod., nec.	114	54	11,105	48,221	7,926	15,835	31,183	80,775	(2)	4,630	(D)	(D)
3291	Abrasive products.....	48	29	6,552	30,177	4,336	8,501	18,005	52,674	95,204	3,331	6,689	38,399
3292	Asbestos products.....	8	7	2,376	10,287	1,897	3,918	7,951	15,608	26,266	698	2,800	12,136
3293	Gaskets and asbestos insulations.....	17	7	1,093	4,127	801	1,543	2,595	6,346	9,776	171	1,040	4,713
3295	Minerals: ground or treated.	14	1	143	478	121	290	387	727	1,626	137	(D)	(D)
3297	Nonclay refractories.....	5	2	179	775	129	265	465	1,414	2,549	71	260	1,786
3299	Nonmetallic mineral products, nec.....	10	6	685	2,137	577	1,177	1,585	3,683	5,709	207	905	4,296
33	Primary metal industries	537	260	54,207	238,927	44,699	88,464	179,821	419,170	(2)	23,922	62,029	289,386
331	Blast furnaces and steel mills.....	5	5	3,949	17,810	3,136	5,539	13,082	29,014	(2)	440	5,028	16,649
3312	Blast furnaces & steel mills	5	5	3,949	17,810	3,136	5,539	13,082	29,014	(2)	440	(D)	(D)
332	Iron and steel foundries..	133	88	8,134	31,991	7,193	14,077	25,914	47,247	(2)	1,858	11,677	50,839
3321	Gray-iron foundries.....	119	75	6,282	24,511	5,655	11,113	20,358	36,520	52,489	1,530	9,056	39,146
3322	Malleable-iron foundries....	7	6	862	3,242	727	1,329	2,397	4,532	6,165	53	1,738	7,675
3323	Steel foundries.....	7	7	989	4,237	810	1,635	3,158	6,194	8,964	275	883	4,018
3341	Secondary nonferrous metals.....	34	7	813	3,969	628	1,352	2,419	10,249	52,723	360	804	5,775
335	Nonferrous rolling and drawing.....	50	39	17,577	79,939	14,478	28,167	60,703	146,153	(2)	11,977	23,182	109,992
3351	Copper rolling and drawing..	30	28	16,645	75,964	13,747	26,610	58,162	138,525	401,590	11,527	22,608	104,031
3361	Nonferrous foundries.....	181	47	4,206	16,685	3,628	7,336	12,859	25,561	45,116	1,045	3,825	(D)
3392	Wire drawing.....	43	31	12,103	53,600	9,606	19,562	38,542	100,528	224,107	4,731	12,392	62,846
3399	Primary metal industries, nec.....	59	21	3,203	15,093	2,557	5,416	10,943	29,744	70,297	2,086	2,001	14,609
34	Fabricated metal products.....	2,149	658	92,743	369,182	75,635	152,534	268,314	624,379	(2)	23,480	109,005	506,235
3411	Tin cans and other tinware	11	6	859	3,419	713	1,382	2,518	7,060	20,278	720	952	4,397
342	Cutlery, tools, & hardware	294	134	34,098	134,050	27,605	53,874	97,695	243,291	(2)	7,758	45,321	206,119
3421	Cutlery.....	37	19	6,451	24,406	5,158	10,013	16,877	63,776	84,823	1,012	8,444	46,795
3423	Hand tools, nec.....	66	22	4,251	16,739	3,407	6,698	12,002	27,986	43,415	585	7,851	31,971
3425	Hand saws and saw blades....	11	9	2,363	10,079	1,908	3,622	7,370	22,316	33,266	509	2,787	18,129
3429	Hardware, nec.....	105	48	17,757	69,772	14,307	28,114	51,093	107,970	176,746	4,582	21,794	87,197
343	Heating and plumbing equipment.....	102	40	5,643	23,626	4,579	9,383	17,784	32,502	(2)	1,293	10,014	50,998
3431	Plumbing fixtures & fittings	33	15	2,936	11,763	2,437	4,784	9,209	12,552	33,113	270	4,708	19,585
3439	Heating and cooking equipment, nec. (inc. Ind. 3432)	69	25	2,707	11,862	2,142	4,599	8,575	19,949	37,153	1,023	5,306	31,413
344	Structural metal products.	467	115	9,758	40,806	7,731	15,814	28,291	65,302	(2)	2,228	7,432	37,745
3441	Structural & ornamental work	147	36	3,180	14,647	2,390	4,954	9,361	23,811	47,227	640	2,318	12,569
3442	Metal doors, sash, and trim.	85	23	1,877	6,841	1,500	3,050	4,825	11,694	24,163	524	411	2,016
3443	Boiler shop products.....	61	23	2,292	9,693	1,921	3,998	7,356	15,024	30,671	536	2,531	12,857
3444	Sheet-metal work.....	174	33	2,407	9,624	1,919	3,811	6,747	14,771	26,051	526	2,172	10,303
346	Metal stamping and coating	626	158	13,376	50,419	11,322	22,973	37,204	82,205	(2)	3,737	15,696	65,962
3461	Vitreous-enameled products..	6	4	274	990	218	493	698	1,303	2,198	(D)	(D)	(D)
3463	Metal stampings.....	202	78	7,719	30,894	6,384	12,970	22,323	51,637	90,518	2,479	11,040	46,841
3465	Enameling and lacquering....	61	5	472	1,296	421	846	1,062	1,898	2,680	68	371	(D)
3466	Galvanizing.....	10	5	186	615	156	328	495	1,103	1,570	(D)	101	(D)
3467	Engraving on metal.....	48	7	495	1,953	433	881	1,349	3,027	4,132	68	547	2,495
3468	Plating and polishing.....	299	59	4,229	14,670	3,707	7,453	11,274	23,235	31,197	1,053	3,447	14,488
3471	Lighting fixtures.....	61	23	3,379	13,276	2,665	5,478	9,221	25,918	49,712	523	5,015	26,666
348	Fabricated wire products..	139	64	7,566	29,796	6,261	12,483	21,701	47,497	(2)	1,904	7,564	33,863
3481	Nails and spikes.....	15	9	759	2,587	674	1,412	2,120	4,783	8,555	115	1,754	6,586
3489	Wirework, nec.....	124	56	6,806	27,209	5,587	11,070	19,580	42,714	68,022	1,788	5,810	27,277

See footnotes at end of table.

## MANUFACTURES—AREA STATISTICS

## New England

Table 2.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Code	Industry group and industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manu- facture (\$1,000)	Value of ship- ments (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
34	Fabricated metal prod- ucts--Continued												
349	Metal products, nec.....	449	118	18,062	73,787	14,754	31,144	53,898	120,601	(2)	5,314	17,011	80,485
3493	Steel springs.....	6	2	154	608	131	306	478	880	1,411	(D)	101	(D)
3494	Bolts, nuts, washers, and rivets.....	68	39	9,918	41,817	7,872	16,851	30,309	68,490	105,264	2,949	11,157	52,583
3495	Screw machine products.....	83	57	5,767	22,935	4,936	10,306	17,236	37,024	56,921	1,623	4,363	20,881
3499	Fabricated metal prod., nec.	78	12	980	3,368	790	1,507	2,373	5,416	9,351	308	629	3,022
35	Machinery, except elec- trical.....	2,425	731	179,324	784,000	137,803	277,729	556,322	1,312,335	(2)	59,795	201,583	930,555
351	Engines and turbines.....	15	12	9,110	46,238	5,946	12,491	28,676	69,967	(2)	2,846	9,552	43,033
352	Tractors & farm machinery.	32	6	391	1,434	313	650	1,041	2,558	(2)	99	804	3,770
3522	Farm machinery (except trac- tors).....	28	5	323	1,139	260	536	851	1,708	4,172	77	(D)	(D)
353	Construction and mining machinery.....	28	13	1,651	6,837	1,198	2,391	4,552	11,885	(2)	395	1,845	10,769
354	Metalworking machinery....	808	216	49,294	231,141	38,554	79,699	168,833	397,241	(2)	20,092	44,887	196,257
3541	Machine tools.....	105	57	27,099	133,541	20,968	43,486	95,009	239,611	325,851	11,621	23,146	93,566
3542	Metalworking machinery.....	53	19	3,335	17,145	2,554	5,628	11,492	29,322	44,385	2,156	3,827	19,343
3544	Special dies and tools.....	488	76	6,553	30,739	5,381	11,735	27,420	44,488	57,756	2,916	17,914	83,348
3545	Metalworking machine attach- ments.....	162	64	12,306	49,715	9,649	18,848	34,911	83,820	107,988	3,397		
355	Special-industry machinery, nec.....	399	175	37,457	159,662	27,529	54,796	105,871	247,812	(2)	9,656	53,624	236,909
3551	Food-products machinery.....	39	15	2,678	12,814	1,709	3,548	7,139	22,733	33,915	829	841	4,953
3552	Textile machinery.....	164	71	18,273	70,296	13,779	26,642	47,049	102,426	161,604	3,774	33,430	146,839
3553	Woodworking machinery.....	27	6	1,682	8,017	1,222	2,489	5,588	18,395	30,055	415	1,451	7,872
3554	Paper-industries machinery..	46	29	3,859	18,555	2,832	6,082	11,598	30,642	54,824	1,961	4,327	22,093
3555	Printing-trades machinery...	31	13	1,766	8,013	1,336	2,806	5,612	11,590	19,022	505	2,273	10,292
3559	Special-industry machinery, nec.....	92	41	9,196	41,965	6,649	13,225	28,883	62,023	96,235	2,169	11,302	44,860
356	General industrial machin- ery.....	189	88	12,996	54,534	9,404	18,868	35,973	99,957	(2)	3,477	17,997	89,521
3561	Pumps and compressors.....	23	14	2,624	11,436	1,686	3,492	6,577	22,884	37,563	967	3,306	14,447
3562	Elevators and escalators....	10	7	374	1,612	241	488	986	2,794	4,493	61	332	1,667
3563	Conveyors.....	19	6	428	1,938	323	659	1,306	3,011	5,061	91	268	1,287
3564	Blowers and fans.....	18	6	638	2,820	461	874	1,755	5,823	9,080	169	3,721	16,761
3566	Power-transmission equipment	44	26	5,252	21,603	4,147	8,088	15,720	34,722	48,889	1,279	4,302	20,308
3567	Industrial furnaces & ovens.	15	4	396	1,743	261	540	920	3,363	5,603	(D)	322	(D)
3569	General industrial machinery, nec.....	40	20	2,542	10,454	1,762	3,679	6,406	21,109	31,393	357	4,927	27,430
357	Office and store machines.	45	29	18,711	70,626	15,513	29,950	55,631	129,803	(2)	3,684	21,431	99,694
3571	Computing & related machines	8	6	3,449	12,876	2,869	5,196	10,155	23,729	29,926	(D)	(D)	(D)
3579	Office and store machines, nec.....	24	14	5,225	22,767	3,780	7,716	15,387	47,143	65,855	1,321	3,657	(D)
358	Service and household ma- chines.....	62	26	14,457	67,786	10,953	21,772	47,902	124,973	(2)	6,682	16,826	88,353
3582	Laundry & dry-cleaning mach.	6	2	486	2,191	359	885	1,739	4,162	6,521	42	(D)	(D)
3583	Sewing machines.....	13	5	2,868	13,067	2,151	4,305	9,213	18,196	25,809	1,048	3,071	14,418
3585	Refrigeration machinery.....	27	12	7,525	34,381	5,748	11,126	24,437	62,431	(2)	4,828	6,183	26,403
3589	Service and household ma- chinery, nec.....	11	3	465	1,835	317	619	960	3,057	6,195	290	1,742	9,860
359	Miscellaneous mach. parts.	847	166	35,254	145,738	28,391	57,109	107,841	228,135	(2)	12,861	34,617	162,249
3591	Valves and fittings, except plumbing.....	61	32	8,861	35,471	6,820	13,466	25,089	61,037	95,724	2,189	8,556	36,844
3592	Fabricated pipe and fittings	19	9	668	2,856	541	1,108	2,007	4,427	9,509	133	498	2,788
3593	Ball and roller bearings....	25	22	15,594	64,966	12,720	25,126	48,795	97,974	138,022	7,899	19,456	95,139
3594	Industrial patterns & molds.	172	30	2,124	10,094	1,774	3,870	7,696	14,281	17,428	690	(D)	(D)
3599	Machine shops.....	570	73	8,005	32,349	6,533	13,537	24,253	50,414	72,888	1,948	4,788	20,410
36	Electrical machinery....	603	342	120,847	457,698	91,587	185,454	306,355	885,454	(2)	33,131	96,048	451,237
361	Elec. industrial apparatus	217	130	47,415	198,109	33,417	66,783	123,804	378,174	(2)	15,281	44,182	214,110
3611	Wiring devices and supplies.	66	41	11,121	40,934	8,721	17,151	28,520	80,975	126,348	1,997	11,319	(D)
3613	Elec. measuring instruments.	36	22	8,726	37,637	5,933	11,762	21,466	72,704	98,267	1,926	6,068	(D)
3614	Motors and generators.....	24	17	7,151	31,398	4,878	10,024	19,667	56,495	94,385	1,035	9,188	41,387
3616	Electrical control apparatus	45	25	7,117	28,954	4,795	9,484	17,653	48,559	79,996	(D)	5,208	25,528
3617	Electrical welding apparatus	4	2	138	801	87	165	355	1,345	1,997	109	362	1,366
3621	Electrical appliances.....	30	16	8,083	31,185	5,980	11,864	21,073	64,878	101,433	2,311	8,561	43,146
3641	Engine elec. equipment....	20	12	2,376	8,959	1,869	3,623	6,019	13,692	24,756	370	2,219	8,583

See footnotes at end of table.



## GEOGRAPHIC DIVISIONS

10-9

## New England

Table 2.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Code	Industry group and industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manu- facture (\$1,000)	Value of ship- ments (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
36	Electrical machinery--Continued												
366	Communication equipment...	232	126	50,269	170,559	40,102	79,765	121,574	326,642	(2)	9,725	26,945	114,171
3661	Radios and related products.	182	91	27,078	86,651	21,864	43,026	62,358	174,915	(2)	4,940	17,946	64,288
3662	Electronic tubes.....	22	16	14,943	51,238	12,449	25,376	39,526	75,920	118,699	2,947	(D)	(D)
3663	Phonograph records.....	6	3	1,295	5,655	833	1,580	2,884	11,710	14,297	(D)	(D)	(D)
3664	Telephone & telegraph equip.	10	9	5,226	20,111	3,871	7,579	13,304	52,517	98,032	1,007	(D)	(D)
3669	Communication equipment, nec.....	12	7	1,726	6,903	1,083	2,202	3,499	11,579	18,999	(D)	955	5,305
369	Electrical products, nec..	54	22	4,731	17,992	3,780	7,356	12,259	33,994	(2)	1,523	(D)	(D)
3691	Storage batteries.....	20	6	594	2,413	454	915	1,663	4,551	13,458	282	371	2,201
3692	Primary batteries.....	4	4	1,260	4,226	1,018	1,980	3,145	7,611	13,905	258	(D)	(D)
3693	X-ray and therapeutic appa- ratus.....	9	3	1,406	6,555	1,070	2,107	3,919	10,153	14,914	521	(D)	(D)
3699	Electrical products, nec....	21	9	1,471	4,797	1,237	2,353	3,530	11,678	22,401	461	(D)	(D)
37	Transportation equipment	414	150	92,301	428,176	71,550	147,232	309,054	686,722	(2)	22,359	51,580	206,974
371	Motor vehicles & equipment	74	26	8,328	38,325	6,959	15,026	30,023	90,859	(2)	2,061	6,543	36,780
3713	Truck and bus bodies.....	36	7	452	1,668	360	736	1,200	2,210	4,518	99	(D)	(D)
3717	Motor vehicles and parts....	32	16	7,200	34,360	6,022	13,215	26,955	84,640	(2)	1,867	5,690	33,197
372	Aircraft and parts.....	116	69	66,276	309,736	49,992	103,508	215,130	479,165	(2)	16,980	(D)	(D)
3721	Aircraft.....	4	4	6,083	28,711	3,786	7,765	16,140	42,316	73,166	(D)	8,193	(D)
3722	Aircraft engines.....	43	36	44,859	211,706	34,804	73,295	152,013	325,219	664,549	10,977	18,605	(D)
373	Ships and boats.....	216	50	16,422	74,863	13,567	26,737	59,874	105,019	(2)	3,233	12,051	33,956
3731	Ship building and repairing.	28	21	14,105	67,550	11,605	22,705	53,849	95,427	157,677	2,709	9,925	27,246
3732	Boat building and repairing.	188	29	2,316	7,313	1,962	4,032	6,025	9,591	15,698	523	2,126	6,710
38	Instruments and related products.....	302	142	36,599	143,394	27,563	54,637	94,275	256,254	(2)	10,887	37,212	171,358
3811	Scientific instruments....	36	17	3,559	14,941	2,423	4,965	8,677	26,785	38,048	1,119	585	2,766
3821	Mechanical measuring in- struments.....	75	39	10,772	46,350	7,340	15,067	27,843	84,573	121,765	3,455	8,481	42,172
3831	Optical instruments and lenses.....	26	13	1,501	7,013	1,017	2,221	4,171	11,871	17,054	340	596	2,344
384	Medical equipment and sup- plies.....	92	32	4,345	14,191	3,330	6,401	9,518	31,222	(2)	1,239	4,202	20,326
3841	Surgical and medical instru- ments.....	32	13	1,093	3,978	862	1,724	2,734	6,263	8,915	142	(D)	(D)
3842	Surgical appliances and sup- plies.....	51	16	2,939	9,079	2,234	4,236	6,100	23,230	36,836	1,040	2,518	13,271
3843	Dental equipment & supplies.	9	3	312	1,133	233	440	683	1,727	4,259	55	(D)	(D)
3851	Ophthalmic goods.....	29	18	4,586	15,379	4,059	7,812	12,479	32,416	43,301	1,511	6,201	30,316
3861	Photographic equipment....	17	5	2,077	8,771	1,363	2,773	4,877	13,911	23,702	1,835	1,660	7,260
387	Watches and clocks.....	27	18	9,756	36,747	8,028	15,396	26,708	55,473	(2)	1,385	15,487	65,974
39	Miscellaneous manufac- tures <sup>2</sup> .....	1,980	710	119,031	416,749	98,657	194,082	304,940	683,749	(2)	26,901	107,000	467,913
391	Jewelry and silverware....	459	159	22,153	79,389	18,356	37,473	58,411	129,955	(2)	3,028	27,054	142,596
3911	Jewelry (precious metal)....	205	66	8,191	26,950	6,727	13,661	17,845	41,077	64,669	665	9,569	43,488
3914	Silverware and plated ware..	67	37	9,454	36,678	7,806	16,009	29,347	63,027	130,378	1,003	12,526	75,456
393	Musical instruments and parts.....	27	10	1,487	5,302	1,297	2,558	4,299	6,427	(2)	282	1,464	4,720
3939	Musical instruments, nec....	16	5	375	1,149	314	567	883	1,599	2,692	39	270	1,077
394	Toys and sporting goods...	195	83	13,132	39,995	10,684	19,900	27,958	65,169	(2)	2,219	13,729	51,995
3941	Games and toys, nec.....	75	34	6,808	20,267	5,403	10,137	13,255	35,106	58,245	1,291	4,904	16,663
3942	Dolls.....	27	12	836	1,828	750	1,304	1,356	3,195	5,651	91	463	1,017
3943	Children's vehicles.....	14	10	1,146	4,391	905	1,775	3,058	5,946	11,474	130	2,343	12,351
3949	Sporting and athletic goods.	79	27	4,340	13,508	3,625	6,681	10,288	20,920	36,727	706	6,019	21,964
395	Office supplies.....	85	21	2,126	7,167	1,597	3,266	4,434	12,578	(2)	331	2,058	9,933
3951	Pens and mechanical pencils.	18	5	666	2,239	525	1,095	1,221	2,676	4,701	129	818	3,389
3952	Lead pencils and crayons....	8	4	129	356	106	195	278	597	1,138	22	174	599
3953	Hand stamps and stencils....	44	4	516	1,675	405	841	1,269	2,900	4,695	69	(D)	(D)
3955	Carbon paper & inked ribbons	9	7	760	2,677	517	1,043	1,523	5,809	10,930	83	573	4,324
396	Costume jewelry & notions.	512	176	26,952	86,169	23,135	44,414	62,916	131,215	(2)	5,292	22,563	88,484
3961	Costume jewelry.....	418	125	15,484	44,309	13,630	26,191	33,021	67,490	119,535	2,141	12,257	47,616
3962	Artificial flowers.....	18	4	528	1,022	484	849	734	1,795	2,873	16	(D)	(D)
3963	Buttons.....	18	7	574	1,645	488	970	1,211	2,266	4,635	65	(D)	(D)
3964	Needles, pins, and fasteners	58	40	10,365	39,193	8,532	16,402	27,949	59,663	90,527	3,068	8,845	36,258
3971	Plastics products, nec....	276	119	16,408	58,564	13,699	27,827	43,205	97,577	195,312	8,348	13,685	53,196

See footnotes at end of table.

## MANUFACTURES—AREA STATISTICS

## New England

Table 2.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Code	Industry group and industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
39	Miscellaneous manufactures--Continued												
398 399	Miscellaneous manufactures <sup>5</sup> .	426	142	36,769	140,160	29,885	58,642	103,713	240,824	( <sup>2</sup> )	7,398	26,447	116,989
3981	Brooms and brushes.....	55	20	2,361	9,007	1,951	3,718	6,499	14,335	28,482	539	3,302	17,257
3984	Candles.....	4	2	121	302	97	185	229	587	949	(D)	94	285
3985	Fireworks and pyrotechnics..	5	2	199	605	181	402	494	877	1,423	(D)	(D)	(D)
3986	Jewelry and instrument cases	36	21	3,296	10,972	2,665	5,113	7,286	15,276	25,873	308	3,139	11,231
3988	Morticians' goods.....	27	11	850	2,896	674	1,407	2,015	4,333	7,789	121	1,035	4,640
3993	Signs & advertising displays	139	12	1,189	4,309	916	1,789	3,070	7,138	11,402	163	1,343	5,650
3999	Miscellaneous products, nec.	76	25	2,868	9,576	2,514	5,067	7,266	14,278	22,833	622	(D)	(D)
19 --	Ordnance and accessories...	51	40	24,326	97,576	19,638	38,679	73,482	177,087	( <sup>2</sup> )	5,230	(D)	(D)

Note: Detailed figures may not add to total because of independent rounding. (D) Withheld to avoid disclosing figures for individual companies. NA Not available. <sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industries (4-digit) and industry groups (3-digit) are not shown. Industries and industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "all industries" line. <sup>2</sup>The total value of shipments figures for industry groups and a few individual industries have not been published due to the extensive and unmeasurable duplication arising from shipments from one establishment to another in the same industry classification. (See Introduction.) <sup>3</sup>The 1954 and 1947 "all industries" totals are not strictly comparable because of differences in scope between the two years in major groups 20 and 24 (see footnote 4). <sup>4</sup>Comparable data for major groups 20 and 24 are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude establishments in S.I.C. Industry 2411, Logging Camps and Contractors, which are included in the scope of the 1954 Census; the 1947 Census also excludes plants processing and distributing fluid milk which in 1954 were classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
20	Food and kindred products except subgroup 202, Dairy products.....	64,000	412,000	66,361	339,023
24	Lumber and wood products except Industry 2411, Logging camps and contractors.....	28,446	115,463	33,574	114,201

<sup>5</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordinance and Accessories." Establishments which are Government-owned and operated are not included.



## GEOGRAPHIC DIVISIONS

10-11

## New England

Table 3.—DISTRIBUTION OF OPERATING MANUFACTURING ESTABLISHMENTS BY EMPLOYMENT SIZE GROUPS AND MAJOR INDUSTRY GROUPS, FOR THE DIVISION: 1954

20 Food and kindred products	26 Pulp paper and products	32 Stone, clay, and glass products	38 Instruments and related products
21 Tobacco manufactures	27 Printing and publishing	33 Primary metal industries	39 Miscellaneous manufactures (includes Group 19)
22 Textile mill products	28 Chemicals and products	34 Fabricated metal products	Ordnance and accessories)
23 Apparel and related products	29 Petroleum and coal products	35 Machinery, except electrical	
24 Lumber and wood products	30 Rubber products	36 Electrical machinery	
25 Furniture and fixtures	31 Leather and leather goods products	37 Transportation equipment	

Division and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
New England Division, total.....	24,625	3,032	45	1,383	1,874	3,541	743	649	2,151	710	51	201	1,161	674	537	2,149	2,425	603	414	302	1,980
1 to 4 employees.....	9,010	1,206	28	170	390	2,290	285	78	960	253	10	36	222	265	122	751	877	114	155	78	720
5 to 9 employees.....	3,740	547	8	121	222	527	98	64	418	144	12	34	128	107	67	365	432	71	62	40	273
10 to 19 employees.....	3,490	474	4	167	274	327	129	85	332	115	10	22	141	120	88	375	385	76	47	42	277
20 to 49 employees.....	3,760	451	1	316	467	253	126	150	239	102	6	22	201	110	101	330	341	91	67	44	342
50 to 99 employees.....	1,914	182	2	183	307	92	64	90	91	48	7	25	154	38	53	155	149	67	22	27	158
100 to 249 employees.....	1,544	114	...	244	171	45	36	106	75	26	2	27	166	19	51	111	111	75	16	30	119
250 to 499 employees.....	662	44	2	117	28	6	4	53	15	15	2	10	118	8	28	34	52	48	18	23	37
500 to 999 employees.....	319	12	...	45	15	1	...	16	17	4	2	15	29	4	18	16	37	32	11	10	35
1,000 to 2,499 employees.....	145	2	...	19	...	...	...	6	4	3	...	7	2	2	9	10	29	20	8	7	16
2,500 employees and over.....	41	...	...	1	...	...	...	1	...	...	...	3	...	1	...	2	12	9	8	1	3

## MANUFACTURES—AREA STATISTICS

## Middle Atlantic

Table 1A.—MANUFACTURING EMPLOYMENT AT OPERATING ESTABLISHMENTS AND CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARIES FOR THE DIVISION:  
1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Division and year <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	(Number)	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
Middle Atlantic:						
1954 <sup>2</sup> .....	4,291,292	17,873,037	4,105,248	16,656,158	186,044	1,216,879
1953 <sup>2</sup> .....	4,498,034	18,291,234	4,362,051	17,572,382	135,983	718,852
1952 <sup>2</sup> .....	4,277,177	16,524,299	4,167,399	15,992,791	<sup>3</sup> 109,778	<sup>3</sup> 531,508
1951 <sup>2</sup> .....	4,174,147	15,366,321	4,064,369	14,834,813	109,778	531,508
1950 <sup>2</sup> .....	4,006,194	13,244,655	3,905,535	12,816,031	100,659	428,624
1949 <sup>2</sup> .....	3,850,592	12,205,084	3,737,368	11,728,888	113,224	476,196

Note: Middle Atlantic Division consists of: New York, New Jersey, and Pennsylvania.

<sup>1</sup>Employment data for administrative offices and auxiliaries are not available for the years prior to 1949.<sup>2</sup>The employment figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period. The employment figures for administrative and auxiliary units were compiled chiefly from Bureau of Old-Age and Survivors Insurance records and are not strictly comparable with the figures for these units that were collected by the Bureau of the Census for the year 1954.<sup>3</sup>The 1951 data are shown for 1952 since auxiliary and administrative unit data were not collected in 1952.

TABLE 1B.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS IN THE DIVISION: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Division and year	Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)	Horse power of prime movers and electric motors <sup>1</sup> (1,000 hp)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
Middle Atlantic:									
1954 <sup>2</sup> .....	82,380	4,105,248	16,656,158	3,212,476	6,217,339	11,524,926	30,402,190	1,551,089	23,038
1953 <sup>2</sup> .....		4,362,051	17,572,382	3,491,465	6,915,521	12,628,266	31,654,930	1,581,553	
1952 <sup>2</sup> .....		4,167,399	15,992,791	3,320,456	6,636,902	11,433,562	28,590,270	1,665,191	
1951 <sup>2</sup> .....		4,064,369	14,834,813	3,273,735	6,591,917	10,732,197	26,666,411	1,565,054	
	(NA)								(NA)
1950 <sup>2</sup> .....		3,905,535	12,816,031	3,121,292	6,266,825	9,234,588	23,503,166	(NA)	
1949 <sup>2</sup> .....		3,737,368	11,728,888	2,978,628	5,895,373	8,353,497	20,675,914		
1947.....	75,341	3,953,870	11,419,701	3,248,732		8,524,628	20,767,991	1,335,235	
1939.....	52,226	2,757,909	3,859,853	2,234,295		2,668,489	7,308,780		12,883
					(NA)				
1929.....	64,730	3,002,843	4,853,031	2,562,340		3,640,419	10,175,956	(NA)	11,187
1919.....	85,589	3,348,567	4,463,569	2,829,604		3,447,834	8,399,615		
1909.....	81,315	2,491,161	1,527,833	2,207,747		1,182,568	2,982,264		(NA)
1899.....	63,834	1,732,170	871,309	1,604,844		729,366	1,763,315		

NA Not available.

<sup>1</sup>Driven by purchased electricity.<sup>2</sup>The 1954 figures include data for establishments engaged in the processing and distribution of fluid milk, Industry Group 202, Dairy Products. These establishments were not included in the figures for the Annual Survey years 1949-1953 or earlier Census years. In addition, the 1954 Census and Annual Survey years include data for Logging Camps and Contractors, Industry 2411, which were not included within the scope of the 1947 Census and earlier Censuses. See footnotes to Table 2 for comparable 1954 and 1947 totals. There were also a number of changes in the definition of manufacturing industries during earlier Census years that affect the comparability of the historical series. Among the more important of these were: figures for 1935 and later years exclude data for "railroad repair shops" and "manufactured gas" which were included in 1899-1933 figures; the minimum size of establishment included for 1954 and 1947 was one employee, for 1939-1921 manufacturing establishments reporting value of shipments of \$5,000 or more were within scope whereas for 1919 and earlier years the cut-off was \$500. (This change in procedure has not appreciably affected the comparability of the historical data except for the figures on number of establishments.)<sup>3</sup>The employment and payroll figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period.



## GEOGRAPHIC DIVISIONS

## Middle Atlantic

10-13

Table 2.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Code	Industry group and industry	1954								1947			
		Establishments, number		All employees		Production workers			Value added by manu- facture (\$1,000)	Value of ship- ments (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
	All industries, total <sup>1</sup>	82,380	27,550	4,105,248	16,656,158	3,212,476	6,217,339	11,524,926	30,402,190	( <sup>2</sup> )	1,551,089	3,953,870	20,767,991
20	Food and kindred prod- ucts.....	8,020	2,398	325,800	1,302,675	221,586	447,469	778,862	2,841,823	( <sup>2</sup> )	131,408	( <sup>4</sup> )	( <sup>4</sup> )
201	Meat products.....	822	281	33,596	139,154	25,241	52,806	95,337	217,153	( <sup>2</sup> )	9,344	30,825	159,944
2011	Meat packing plants.....	352	132	19,892	84,901	14,618	30,962	58,027	124,969	( <sup>2</sup> )	5,323	19,088	103,212
2013	Prepared meats.....	339	111	10,477	45,485	7,889	16,367	30,344	76,477	( <sup>2</sup> )	3,116	(NA)	(NA)
2015	Poultry dressing plants.....	131	38	3,226	8,767	2,733	5,476	6,965	15,706	99,937	905	891	3,074
2021	Creamery butter.....	56	15	1,085	3,728	727	1,526	2,246	6,542	54,095	594	( <sup>4</sup> )	( <sup>4</sup> )
2022	Natural cheese.....	98	22	1,521	4,846	1,294	2,921	3,876	11,276	51,961	644	( <sup>4</sup> )	( <sup>4</sup> )
2023	Concentrated milk.....	40	20	1,170	4,231	948	2,117	3,226	13,270	53,378	1,372	( <sup>4</sup> )	( <sup>4</sup> )
2024	Ice cream and ices.....	291	107	10,291	41,261	5,982	11,757	20,351	107,495	223,577	7,573	( <sup>4</sup> )	( <sup>4</sup> )
2026	Fluid milk.....	488	45	4,107	15,027	2,728	5,618	8,909	33,864	133,914	2,380	( <sup>4</sup> )	( <sup>4</sup> )
2027	Fluid milk and other prod.	1,206	387	35,428	147,636	17,205	36,065	62,877	268,109	909,532	18,494	( <sup>4</sup> )	( <sup>4</sup> )
203	Canned and frozen foods...	593	265	36,700	116,242	31,917	64,602	90,060	280,913	( <sup>2</sup> )	14,569	35,055	173,615
2033	Canned fruits and vegetables	275	167	25,248	81,783	22,140	45,542	65,067	202,411	546,925	11,405	25,266	128,812
2035	Pickles and sauces.....	174	42	4,802	15,274	3,921	7,516	10,620	32,067	109,135	1,224	4,911	27,169
2036	Packaged seafood.....	34	13	1,179	3,171	1,044	1,967	2,385	7,236	21,861	374	3,654	11,120
2037	Frozen fruits and vegetables	51	26	3,811	10,418	3,377	6,822	8,012	21,586	52,534	991		
204	Grain mill products.....	380	96	12,816	58,160	9,485	20,783	39,862	143,973	( <sup>2</sup> )	5,985	14,902	156,736
2042	Prepared animal feeds.....	269	70	7,352	31,968	5,055	11,028	19,894	74,407	388,228	3,179	8,290	72,300
2045	Flour mixes.....	22	6	1,731	8,534	1,340	2,881	5,906	29,900	74,917	1,360	(D)	(D)
205	Bakery products.....	1,627	469	77,325	304,767	48,966	98,066	171,448	520,206	( <sup>2</sup> )	18,027	78,296	397,365
2051	Bread and related products..	1,507	430	62,960	256,025	36,787	75,879	132,861	389,268	748,081	15,275	64,473	310,123
2052	Biscuit and crackers.....	120	39	14,364	48,742	12,178	22,186	38,586	130,938	237,355	2,752	13,823	87,242
207	Candy and related products	448	160	30,414	99,782	25,233	48,947	72,611	244,749	( <sup>2</sup> )	6,775	(D)	(D)
2071	Confectionery products.....	417	135	20,047	60,018	17,032	32,495	44,219	124,278	274,378	3,192	21,287	(D)
208	Beverages.....	919	277	46,452	226,314	26,339	50,093	117,569	532,243	( <sup>2</sup> )	26,076	46,637	382,755
2081	Bottled soft drinks.....	764	174	15,077	62,712	6,991	13,110	24,075	116,716	193,096	8,719	13,017	68,593
2082	Beer and ale.....	70	66	25,925	139,798	15,391	29,078	78,812	335,901	525,056	15,275	26,107	226,052
2083	Malt.....	7	6	202	1,095	154	307	741	4,072	14,785	205	247	3,203
209	Miscellaneous foods.....	994	240	27,809	111,283	20,005	41,459	68,564	405,417	( <sup>2</sup> )	14,041	27,779	286,735
2095	Flavorings.....	159	33	3,142	13,788	1,982	3,867	6,505	60,949	121,825	1,930	3,920	56,214
2097	Manufactured ice.....	189	20	1,785	6,531	1,185	3,359	5,042	13,151	16,189	365	4,078	24,465
2098	Macaroni and spaghetti.....	65	28	2,833	10,503	2,073	4,085	5,933	21,600	64,797	1,048	3,489	19,595
2099	Food preparations, nec.....	539	142	17,303	67,538	12,808	26,368	42,657	260,580	1,028,532	8,321	12,432	110,878
21	Tobacco manufactures....	247	83	21,600	53,085	20,004	36,770	46,304	116,929	( <sup>2</sup> )	2,100	26,927	103,666
2111	Cigarettes.....	6	5	1,323	4,586	1,149	2,173	3,694	19,859	44,657	341	(D)	(D)
2121	Cigars.....	205	66	19,059	45,135	17,766	32,428	40,088	89,265	182,707	1,132	24,003	(D)
22	Textile mill products...	3,710	1,781	213,105	729,910	186,949	360,849	568,052	1,187,747	( <sup>2</sup> )	45,913	292,278	1,370,733
221	Woolen and worsted manu- facture.....	155	98	18,942	68,517	16,094	31,025	51,522	93,021	( <sup>2</sup> )	4,149	40,943	183,703
2211	Scouring and combing plants.	14	8	1,077	4,156	910	1,775	3,044	5,188	22,438	557	1,739	6,572
2212	Yarn mills, wool, exc. carpet.....	44	28	3,141	9,163	2,890	5,337	7,642	11,116	41,931	683	7,744	27,829
2213	Woolen and worsted fabrics..	71	43	12,653	46,534	10,672	20,692	35,076	65,773	151,906	2,070	27,935	135,367
2216	Finishing wool textiles.....	26	19	2,070	8,664	1,620	3,220	5,758	10,942	14,568	837	3,525	13,935
222	Yarn and thread mills.....	161	85	9,160	26,092	8,096	15,273	20,201	39,020	( <sup>2</sup> )	2,313	(D)	(D)
2222	Yarn throwing mills.....	85	61	6,772	17,942	6,221	12,025	15,196	27,915	42,750	1,545	10,531	31,508
2223	Thread mills.....	38	12	1,111	4,229	725	1,047	1,691	6,862	20,251	209	1,478	9,929
2224	Yarn mills, cotton system...	38	12	1,276	3,921	1,149	2,201	3,313	4,242	27,791	558	3,988	(D)
223	Broad-woven fabrics.....	356	187	20,069	66,661	18,264	35,961	54,879	100,858	( <sup>2</sup> )	2,650	(D)	(D)
2233	Cotton broad-woven fabrics..	107	43	4,387	15,828	3,858	7,349	12,076	24,619	62,919	618	9,595	46,371
2234	Synthetic broad-woven fabrics.....	249	144	15,681	50,833	14,406	28,612	42,803	76,239	194,494	2,031	23,782	113,088
2241	Narrow fabric mills.....	256	93	8,942	30,363	7,811	15,399	22,549	44,771	85,408	1,682	12,088	49,411
225	Knitting mills.....	1,776	858	77,555	229,465	69,663	128,025	181,037	378,811	( <sup>2</sup> )	14,002	89,026	379,335
2251	Full-fashioned hosiery mills	438	179	18,425	54,364	16,755	30,289	45,016	78,797	( <sup>2</sup> )	2,328	29,300	144,939
2252	Seamless hosiery mills.....	86	57	5,435	12,980	4,936	8,853	10,449	19,947	38,346	951	8,026	22,507
2253	Knit outerwear mills.....	875	423	31,665	97,617	28,373	51,915	74,871	171,221	409,421	7,043	23,569	102,474
2254	Knit underwear mills.....	92	87	11,581	27,409	10,550	18,653	22,635	42,286	102,095	678	17,532	62,253
2256	Knit fabric mills.....	233	91	8,442	31,705	7,258	15,092	23,928	59,379	182,665	2,916	6,306	33,596
2261	Finishing textiles exc.wool	434	204	23,487	99,962	20,300	43,630	77,945	151,151	265,738	4,143	29,269	152,328
227	Carpets and rugs.....	105	70	29,211	115,104	24,665	48,481	90,744	223,643	( <sup>2</sup> )	11,594	40,394	244,721
2271	Wool carpets and rugs.....	53	44	20,468	77,131	17,242	33,141	59,710	136,279	( <sup>2</sup> )	6,514	30,579	168,773
2273	Carpets and rugs, except wool.....	44	18	1,262	3,957	1,071	2,022	3,018	7,797	16,550	287	2,133	(D)
2274	Hard-surface floor coverings	8	8	7,481	34,016	6,351	13,318	28,016	79,566	140,895	4,793	(D)	(D)

See footnotes at end of table.

## MANUFACTURES—AREA STATISTICS

## Middle Atlantic

Table 2.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Code	Industry group and industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manu- facture (\$1,000)	Value of ship- ments (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
22	Textile mill prod.—Con.												
228	Hats, except cloth and millinery.....	115	45	5,053	17,353	4,566	8,105	13,844	26,519	(2)	399	(D)	(D)
2281	Fur-felt hats and hat bodies	50	19	3,088	10,989	2,839	4,851	9,234	16,793	28,303	272	5,868	23,979
2282	Wool-felt hats & hat bodies.	24	9	898	2,436	796	1,439	1,837	3,782	6,858	(D)	(D)	(D)
2283	Straw hats.....	30	13	671	2,638	577	1,207	1,877	3,854	7,103	(D)	...	...
2284	Hatters' fur.....	11	4	395	1,289	351	606	895	2,089	6,195	27	661	3,686
229	Miscellaneous textile goods.....	352	147	20,682	76,390	17,487	34,945	55,327	129,950	(2)	4,977	22,131	105,689
2291	Felt goods, nec.....	27	8	1,463	6,125	1,247	2,527	4,649	10,007	24,492	273	1,544	7,773
2293	Padding & upholstery filling	56	23	2,024	7,446	1,715	3,429	5,656	14,123	32,865	789	1,738	8,551
2294	Processed textile waste.....	54	23	1,542	5,176	1,304	2,705	3,799	8,654	22,629	222	1,600	7,023
2295	Coated fabric, except rubberized.....	46	18	3,585	17,124	2,772	6,109	11,277	29,715	76,382	1,589	3,380	17,195
2298	Cordage and twine.....	37	18	3,424	11,950	2,805	5,617	8,117	22,153	41,204	522	(D)	(D)
23	Apparel & related prod..	20,833	8,311	614,949	1,791,220	550,537	963,125	1,404,420	2,879,631	(2)	27,803	593,368	2,691,326
231	Men's & boys' suits & coats	880	424	65,513	216,085	59,473	105,770	177,677	312,553	(2)	1,296	84,404	398,345
2311	Men's & boys' suits & coats.	797	390	63,588	210,431	57,732	102,711	173,167	304,145	660,255	1,237	81,309	385,783
2312	Suit and coat findings.....	83	34	1,925	5,653	1,740	3,058	4,510	8,408	20,250	59	3,095	12,562
232	Men's & boys' furnishings.	1,883	835	86,222	222,364	77,995	136,535	176,581	347,162	(2)	3,674	93,593	338,930
2321	Men's dress shirts and nightwear.....	478	275	39,121	96,367	35,251	61,179	75,872	155,249	442,305	1,618	43,403	151,292
2323	Men's and boys' neckwear....	260	86	5,624	17,694	4,831	8,448	12,470	30,165	65,584	232	6,546	34,451
2327	Separate trousers.....	393	171	15,727	41,154	14,649	25,224	35,010	62,000	136,301	436	20,488	72,813
2329	Men's & boys' clothing, nec.	413	215	19,401	50,459	17,456	31,378	39,546	74,910	168,060	1,185	16,675	54,505
233	Women's & misses' outerwear	7,506	4,008	229,084	690,588	205,555	352,265	544,359	1,106,624	(2)	8,539	205,727	1,016,567
2331	Blouses.....	950	550	33,393	78,772	30,751	52,944	64,363	131,076	306,255	1,885	25,686	97,737
2333	Dresses, unit price.....	3,229	1,976	103,381	312,381	93,429	157,318	250,715	491,150	1,136,571	3,299	98,280	469,570
2334	Dresses, dozen price.....	423	233	17,497	43,158	15,846	28,067	32,850	71,217	176,125	554	15,572	52,626
2337	Women's suits, coats, and skirts.....	2,376	1,044	62,290	221,972	54,314	94,655	170,822	356,307	885,247	2,096	...	..
234	Women's undergarments.....	1,321	727	64,239	169,585	57,214	100,368	127,661	292,724	(2)	4,291	60,404	248,255
2341	Women's and children's underwear.....	1,012	532	42,405	107,727	38,373	67,057	83,222	184,603	516,164	2,944	40,767	167,470
2342	Corsets and allied garments.	309	195	21,833	61,858	18,841	33,311	44,439	108,120	220,575	1,347	19,637	80,785
2351	Millinery.....	686	218	14,117	48,633	12,724	23,159	39,607	76,395	132,325	332	14,410	75,655
236	Children's outerwear.....	1,469	769	53,350	143,227	47,841	84,948	111,824	236,276	(2)	2,469	36,890	145,710
2361	Children's dresses.....	548	343	24,578	62,318	21,959	39,338	48,065	103,645	249,833	964	18,584	66,572
2363	Children's coats.....	351	183	11,773	38,060	10,511	18,462	30,144	62,494	151,082	477	9,510	45,654
2369	Children's outerwear, nec....	570	244	16,998	42,849	15,370	27,147	33,613	70,135	170,487	1,028	8,796	33,484
2371	Fur goods.....	1,790	60	9,282	40,336	7,460	12,967	32,093	69,807	215,399	373	14,777	114,318
238	Miscellaneous apparel.....	1,186	484	33,320	89,389	29,628	51,035	67,339	150,974	(2)	1,407	29,920	123,839
2381	Fabric dress gloves.....	93	39	3,278	7,520	2,980	5,058	6,021	12,479	29,235	(D)	(D)	(D)
2383	Suspenders and garters.....	29	6	526	1,455	460	781	1,106	2,480	6,315	16	948	4,208
2384	Robes and dressing gowns....	260	116	7,118	18,740	6,474	10,884	14,287	30,977	80,038	250	6,373	28,560
2385	Waterproof outer garments...	187	97	6,037	16,532	5,483	9,438	13,156	30,833	66,510	288	4,459	18,756
2386	Leather and sheep-lined clothing.....	39	25	1,948	5,630	1,705	2,948	4,421	8,952	21,053	106	1,330	5,253
2387	Belts.....	368	124	9,088	26,019	7,800	13,917	18,503	42,648	77,415	431	7,214	30,555
2389	Apparel, nec.....	79	26	1,696	5,182	1,458	2,749	3,740	7,774	14,540	135	1,238	4,723
239	Fabricated textiles, nec..	4,112	790	59,818	171,010	52,644	96,074	127,275	287,113	(2)	5,418	53,243	229,707
2391	Curtains and draperies.....	304	80	5,769	16,136	5,130	9,729	12,045	28,283	80,536	393	3,458	15,619
2392	Housefurnishings, nec.....	618	171	12,785	36,626	11,086	20,559	25,491	66,009	172,001	896	9,877	42,564
2393	Textile bags.....	90	25	2,296	6,783	1,909	3,610	4,795	9,560	40,389	249	2,175	10,077
2394	Canvas products.....	287	34	2,598	7,706	2,123	4,071	5,330	12,590	26,897	280	2,207	8,723
2395	Tucking, pleating and stitching.....	393	78	5,203	14,644	4,845	8,673	12,255	23,511	29,163	501	4,494	(D)
2396	Trimings and art goods.....	646	141	10,043	27,267	8,646	15,363	19,320	45,477	97,356	677	9,576	40,481
2397	Schiffli-machine embroideries.....	573	49	5,292	18,509	4,686	9,227	13,872	32,576	63,358	1,002	(D)	(D)
2398	Embroideries, exc. schiffli.	753	120	8,989	22,725	8,341	13,649	18,741	34,689	47,092	628	8,521	30,355
2399	Textile products, nec.....	448	92	6,839	20,612	5,874	11,189	15,423	34,414	67,688	789	7,800	35,437
24	Lumber and wood products	3,372	446	37,583	116,613	32,234	64,294	89,184	181,359	(2)	9,064	(4)	(4)
2411	Logging camps and contractors.....	406	14	1,714	4,034	1,524	2,880	3,559	7,467	13,065	748	(4)	(4)
242	Lumber and basic products.	1,482	109	11,333	28,405	10,139	19,972	24,234	43,213	(2)	3,204	10,728	35,824
2421	Sawmills and planing mills..	1,461	104	10,939	27,362	9,787	19,231	23,342	41,740	81,402	3,128	10,360	33,259
243	Millwork & related prod...	579	129	10,225	41,462	7,974	16,111	28,083	61,089	(2)	1,760	8,915	39,239
2431	Millwork plants.....	542	106	8,013	32,598	6,174	12,651	22,322	45,875	100,527	1,273	6,399	28,745

See footnotes at end of table.



## GEOGRAPHIC DIVISIONS

10-15

## Middle Atlantic

Table 2.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Code	Industry group and industry	1954										1947	
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
24	Lumber and wood products—Continued												
243	Millwork and related products—Continued												
2432	Plywood plants.....	7	4	773	2,254	681	1,294	1,824	2,499	7,033	42	827	2,953
2433	Prefabricated wood products..	30	19	1,437	6,610	1,118	2,165	3,936	12,714	32,699	444	1,689	7,541
244	Wooden containers.....	285	74	5,592	16,518	4,937	9,977	12,984	25,842	(2)	1,102	8,110	29,788
2441	Fruit and vegetable baskets..	29	13	967	2,365	886	1,852	1,947	3,243	5,622	85	1,244	3,696
2442	Rattan and willow ware.....	32	5	562	1,548	501	1,011	1,330	2,638	6,035	(D)	(D)	(D)
2443	Cigar boxes.....	13	10	698	1,615	645	1,340	1,349	2,526	4,882	(D)	(D)	(D)
2444	Wooden boxes.....	174	41	2,858	9,209	2,444	4,851	6,791	14,709	31,322	706	4,039	15,982
2445	Cooperage.....	37	5	506	1,779	460	921	1,565	2,723	12,244	38	1,291	5,306
249	Miscellaneous wood prod...	620	121	8,717	26,193	7,658	15,352	20,322	43,746	(2)	2,248	9,582	38,037
2493	Mirror and picture frames...	152	14	1,272	4,067	1,093	2,201	2,979	7,130	12,551	41	1,014	4,370
2499	Wood products, nec.....	439	92	6,734	19,413	5,967	11,975	15,368	31,576	57,684	(D)	7,430	27,851
25	Furniture and fixtures..	2,789	731	69,678	257,094	58,143	115,095	193,214	431,010	(2)	11,098	62,731	291,950
251	Household furniture.....	1,714	481	44,622	159,449	37,606	73,427	119,508	261,116	(2)	6,710	40,721	183,036
2511	Wood furniture, not uphstd.	704	205	20,186	67,407	17,576	35,552	53,113	104,835	192,147	2,602	20,710	81,819
2512	Uphstd. household furniture	471	112	9,987	37,880	8,426	15,778	28,349	63,861	122,258	828	8,190	40,730
2514	Metal household furniture...	237	94	7,679	27,639	6,440	12,418	20,290	45,754	97,534	1,978	4,485	24,351
2515	Mattresses and bedsprings...	283	64	6,418	25,524	4,903	9,153	17,056	45,102	101,832	1,142	6,576	32,648
2519	Household furniture, nec....	19	6	350	997	260	524	698	1,562	2,794	159	(D)	(D)
252	Office furniture.....	86	47	7,682	28,949	6,416	13,338	22,973	54,618	(2)	(D)	7,120	37,954
253	Public & professional furn.	78	33	3,222	12,722	2,673	5,426	9,549	21,827	(2)	564	(D)	(D)
2531	Public-building furniture...	52	20	1,716	6,495	1,447	2,917	5,060	11,606	19,588	273	1,117	(D)
2532	Professional furniture.....	26	13	1,505	6,227	1,225	2,508	4,488	10,220	17,793	291	1,408	7,082
2541	Partitions and fixtures...	525	115	8,963	38,327	7,315	14,615	29,094	62,314	110,173	1,349	6,954	36,390
256	Screens, shades, & blinds.	318	45	4,091	13,630	3,201	6,409	9,128	24,052	(2)	661	(D)	(D)
2561	Window and door screens....	29	7	762	2,845	639	1,295	2,155	4,896	11,407	119	657	2,865
2562	Window shades.....	69	14	1,409	5,035	1,059	2,154	3,144	8,533	19,039	200	1,715	(D)
2563	Venetian blinds.....	220	24	1,918	5,749	1,502	2,959	3,827	10,621	28,396	341	1,959	8,213
259	Furniture & fixtures, nec.	68	10	1,096	4,017	929	1,878	2,960	7,082	(2)	(D)	1,080	4,824
2591	Restaurant furniture.....	46	6	804	2,909	673	1,364	2,137	4,321	8,387	106	977	4,489
2599	Furniture and fixtures, nec.	22	4	292	1,108	256	513	822	2,761	5,304	(D)	(D)	(D)
26	Pulp, paper and products	1,757	992	128,136	532,009	105,061	221,574	389,277	986,317	(2)	72,518	121,055	730,316
261	Pulp, paper and board.....	228	203	36,510	167,614	30,862	69,277	133,428	312,807	(2)	37,661	37,546	259,759
2611	Pulp mills.....	45	27	4,771	19,996	4,214	9,252	16,806	32,581	91,121	9,126	5,434	28,174
2641	Paper coating and glazing.	104	31	4,981	21,655	3,907	8,200	14,581	63,169	134,699	2,219	3,637	27,199
2651	Envelopes.....	57	37	3,425	14,321	2,824	6,077	9,709	21,704	43,035	3,218	2,976	16,373
2661	Paper bags.....	131	59	6,070	23,567	4,770	9,698	15,486	43,256	107,930	2,928	6,349	33,278
267	Paperboard containers.....	723	447	45,136	175,444	37,245	75,732	15,188	297,087	(2)	12,336	40,687	227,630
2671	Paperboard boxes.....	653	413	41,623	161,785	34,140	69,380	134,543	272,349	607,099	11,215	37,972	214,867
2674	Fiber cans, tubes, drums, etc.	70	34	3,512	13,659	3,104	6,352	10,644	24,737	48,847	1,121	2,715	12,763
269	Pulp, paper & prod., etc...	514	217	32,012	129,406	25,451	52,588	91,884	248,293	(2)	14,154	29,860	166,077
2691	Die-cut paper and board.....	162	48	5,257	20,680	4,212	8,186	1,269	46,316	87,197	1,250	4,238	26,405
2693	Wallpaper.....	39	17	1,705	6,618	1,427	2,969	5,069	9,514	18,884	226	(D)	(D)
2694	Pulp goods, pressed & molded	7	4	634	2,881	522	1,119	2,181	5,721	10,523	555	(D)	(D)
2699	Paper & board products, nec.	306	148	24,415	99,226	19,289	40,314	69,363	186,741	471,005	12,123	22,424	118,850
27	Printing and publishing.	8,838	1,869	254,505	1,214,331	151,329	290,162	660,755	2,230,623	(2)	61,801	240,963	1,555,761
2711	Newspapers.....	1,157	298	61,935	303,560	32,031	60,336	154,601	500,258	727,277	14,311	56,606	342,856
2721	Periodicals.....	724	166	34,593	190,507	7,446	13,679	33,700	522,023	994,801	6,130	34,364	364,109
273	Books.....	628	155	26,196	114,132	10,048	19,575	39,332	274,418	(2)	5,229	28,666	186,269
2731	Books; publishing & printing	392	98	17,949	76,833	3,074	5,722	9,993	219,856	370,587	3,028	24,005	159,820
2732	Book printing.....	236	57	8,246	37,299	6,973	13,853	29,313	54,562	82,037	2,200	4,661	26,449
2741	Miscellaneous publishing..	387	55	6,896	29,936	1,304	2,458	4,620	62,544	85,502	1,599	4,839	34,357
2751	Commercial printing.....	3,469	513	59,012	267,624	48,018	92,061	203,227	407,808	332,659	17,135	54,520	295,568
2761	Lithographing.....	822	221	23,455	119,040	18,440	36,139	84,713	186,183	304,852	10,136	17,591	110,530
2771	Greeting cards.....	134	47	6,576	22,490	4,968	9,417	14,444	41,605	74,418	753	(D)	(D)
278	Bookbinding and related industries.....	623	176	16,384	56,850	14,403	28,029	44,679	86,187	(2)	2,517	19,835	83,676
2781	Bookbinding.....	334	93	8,861	30,726	8,005	15,351	25,313	43,593	56,586	1,577	(D)	(D)
2782	Blankbooks and paper ruling.	137	29	2,847	9,677	2,444	4,752	7,259	15,413	24,631	457	(D)	(D)
2783	Loose-leaf binders and devices.....	58	22	3,066	11,056	2,512	5,008	7,883	19,017	30,944	354	(D)	(D)
2789	Miscellaneous bookbinding work.....	94	32	1,609	5,391	1,441	2,916	4,223	8,164	10,192	128	(D)	(D)

See footnotes at end of table.

## MANUFACTURES—AREA STATISTICS

## Middle Atlantic

Table 2.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Code	Industry group and industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manu- facture (\$1,000)	Value of ship- ments (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
27	Printing and publishing—Continued												
279	Printing trade services...	894	244	19,453	110,188	14,667	28,464	81,457	149,593	(2)	3,988	18,766	113,913
2791	Typesetting.....	388	81	6,173	30,741	4,966	9,575	23,611	43,770	50,158	1,494	5,252	29,690
2792	Engraving and plate printing	205	24	3,394	13,938	2,781	5,261	11,090	19,875	27,918	643	4,421	19,697
2793	Photoengraving.....	229	99	6,723	46,099	4,771	9,279	34,287	58,867	67,672	1,290	6,650	46,822
2794	Electrotyping & stereotyping	72	40	3,149	19,398	2,130	4,329	12,450	27,060	33,602	541	2,443	17,704
28	Chemicals and products..	2,964	1,014	194,682	908,303	128,601	259,493	515,727	2,504,467	(2)	168,711	191,841	1,630,711
281	Inorganic chemicals.....	119	70	12,823	60,780	9,262	18,844	39,908	151,537	(2)	17,699	13,635	98,428
2811	Sulfuric acid.....	6	6	702	3,109	493	1,038	2,076	11,016	19,901	884	(NA)	(NA)
282	Organic chemicals.....	254	165	63,973	320,992	44,114	87,915	195,846	742,614	(2)	74,515	67,128	468,072
2822	Intermediates and organic colors.....	59	37	15,096	76,788	9,984	19,844	44,748	153,800	315,785	(D)	(NA)	(NA)
2823	Plastics materials.....	71	48	17,379	87,479	11,540	23,552	51,317	236,168	473,442	26,548	14,681	106,330
2829	Organic chemicals, nec.....	91	56	20,011	107,851	13,776	27,177	65,094	263,467	520,134	19,653	(NA)	(NA)
283	Drugs and medicines.....	478	155	41,407	188,496	25,752	53,367	98,264	651,813	(2)	22,969	33,457	325,790
284	Soap and related products.	445	96	15,568	73,462	8,957	17,363	34,538	207,442	(2)	9,044	15,211	174,487
2841	Soap and glycerin.....	80	20	8,506	43,299	4,551	8,921	20,385	120,210	225,597	5,992	9,114	111,049
2842	Cleaning & polishing prod...	313	56	5,523	21,709	3,542	6,840	11,013	69,679	148,169	1,782	4,729	48,862
2843	Sulfonated oils & assistants	52	20	1,537	8,463	863	1,601	3,139	17,552	39,460	1,268	1,969	20,407
285	Paints and allied products	497	183	23,067	108,488	15,047	30,463	59,312	287,923	(2)	11,227	23,642	191,485
2851	Paints and varnishes.....	434	156	17,033	81,657	10,575	21,223	41,072	191,622	461,175	8,942	17,253	148,694
2852	Inorganic color pigments....	42	21	5,771	25,802	4,286	8,850	17,600	94,217	166,350	2,134	6,167	(D)
2853	Whiting and fillers.....	21	6	262	1,429	186	389	639	2,083	4,390	150	222	(D)
286	Gum and wood chemicals....	23	7	436	1,622	353	734	1,075	3,292	(2)	391	999	4,248
287	Fertilizers.....	75	24	2,290	8,580	1,741	3,774	6,092	16,085	(2)	2,593	2,284	13,766
2871	Fertilizers.....	7	7	1,273	5,330	992	2,156	3,971	9,305	27,258	1,900	1,490	9,671
2872	Fertilizers, mixing only....	66	17	1,016	3,249	749	1,618	2,121	6,779	31,170	692	794	4,095
288	Vegetable and animal oils.	119	51	5,057	21,753	3,799	8,417	15,068	59,170	(2)	7,655	5,515	84,514
2886	Grease and tallow.....	93	29	2,823	12,255	2,030	4,510	8,073	21,148	57,632	2,818	3,063	(D)
2887	Fatty acids.....	4	4	374	1,938	268	635	1,256	3,175	9,233	617	397	4,785
2889	Animal oils, nec.....	11	8	446	1,789	393	967	1,465	7,261	21,892	2,360	(D)	(D)
289	Chemical products, nec....	954	263	30,058	123,727	19,572	38,613	65,621	384,589	(2)	22,616	29,970	269,921
2891	Printing ink.....	101	37	3,385	16,043	2,265	4,619	8,997	36,461	76,969	4,504	2,732	23,271
2893	Toilet preparations.....	290	77	13,179	50,717	8,743	17,069	26,255	197,993	299,555	3,824	13,938	135,651
2894	Glue and gelatin.....	82	27	2,388	9,838	1,603	3,238	5,524	22,394	46,439	1,193	2,895	22,683
2896	Compressed and liquefied gases.....	74	38	2,539	10,710	1,589	3,196	6,307	31,391	41,715	9,798	2,723	(D)
2897	Insecticides & fungicides...	29	8	974	4,119	529	1,074	1,989	4,718	17,565	177	1,588	8,192
2898	Salt.....	7	4	707	2,743	594	1,385	2,103	8,734	13,398	938	917	4,060
2899	Chemical products, nec.....	346	63	6,384	27,007	3,932	7,391	13,239	78,210	147,857	2,035	4,969	47,789
29	Petroleum & coal prod...	323	121	47,054	247,239	37,491	72,469	174,965	492,878	(2)	140,392	51,766	507,432
2931	Beehive coke ovens.....	31	5	383	919	348	314	789	1,729	6,091	(D)	2,444	18,502
295	Paving & roofing materials	149	35	4,481	19,346	3,382	6,960	13,403	45,234	(2)	3,411	4,960	(D)
2951	Paving mixtures and blocks..	107	10	1,232	5,601	877	1,775	3,272	16,533	40,407	1,976	(D)	(D)
2952	Roofing felts and coatings..	42	25	3,248	13,745	2,504	5,185	10,130	28,701	84,639	1,435	4,130	30,490
30	Rubber products.....	303	134	37,021	154,451	29,371	57,730	111,844	286,907	(2)	19,723	40,797	210,499
3031	Reclaimed rubber.....	7	7	983	4,233	809	1,614	3,064	6,367	10,640	413	(D)	(D)
3099	Rubber industries, etc....	285	116	27,735	113,173	21,360	42,034	77,949	190,808	332,977	7,409	27,849	129,415
31	Leather & leather goods.	2,181	873	103,317	300,674	93,439	174,566	245,551	451,725	(2)	6,912	110,413	467,107
3111	Leather tanning and finishing.....	222	97	15,567	50,345	12,112	23,421	41,361	78,063	219,580	1,727	16,008	119,610
3121	Industrial leather belting	34	7	1,860	9,852	477	953	1,527	3,154	5,472	64	846	5,023
3131	Footwear cut stock.....	101	46	3,480	9,852	3,152	5,879	8,201	14,629	45,330	442	4,441	16,438
314	Footwear, except rubber...	439	313	49,886	140,737	45,227	83,103	117,386	203,210	(2)	3,212	52,197	189,136
3141	Footwear, except rubber.....	344	258	43,463	123,420	40,051	74,046	104,451	177,608	361,126	2,870	47,017	169,230
3142	House slippers.....	95	55	5,422	16,317	5,176	9,056	12,934	25,602	52,662	341	5,180	19,906
315	Leather gloves.....	128	41	3,512	7,840	3,159	5,135	6,149	10,648	(2)	43	6,886	19,005
3161	Luggage.....	294	82	7,113	21,973	6,375	12,250	16,970	36,018	73,069	299	6,604	28,256
317	Purses and small leather goods.....	750	250	22,494	59,922	20,501	39,275	47,909	92,224	(2)	990	19,560	74,388
3171	Handbags and purses.....	576	205	18,365	49,256	16,756	32,195	39,517	75,032	156,485	718	16,540	65,025
3172	Small leather goods.....	174	45	4,129	10,666	3,745	7,080	8,392	17,192	32,764	272	3,020	9,363
319	Miscellaneous leather goods.....	213	37	2,801	8,143	2,431	4,547	6,046	13,776	(2)	132	3,871	15,251

See footnotes at end of table.



GEOGRAPHIC DIVISIONS  
Middle Atlantic

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Table 2.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Code	Industry group and industry	1954									1947		
		Establish- ments, number		All employees		Production workers			Value added by manu- facture (\$1,000)	Value of ship- ments (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
32	Stone, clay, and glass products.....	2,420	778	135,232	553,554	112,022	223,879	421,717	1,033,041	(2)	78,512	139,357	684,917
3211	Flat glass.....	9	9	7,877	41,073	6,774	13,974	35,074	85,058	116,163	3,617	9,872	56,144
322	Pressed & blown glassware.....	149	71	33,719	133,816	28,438	55,896	103,900	233,944	(2)	16,314	(D)	(D)
3221	Glass containers.....	26	25	16,757	62,996	15,164	29,484	54,571	115,414	199,022	11,224	(D)	(D)
3229	Pressed & blown glass, nec..	123	46	16,962	70,820	13,274	26,412	49,329	118,530	159,406	5,090	(D)	(D)
3231	Products of purchased glass	396	79	7,370	25,995	6,133	12,089	18,951	45,458	79,448	1,141	8,609	37,349
325	Structural clay products..	176	140	12,907	50,827	11,495	22,926	42,457	80,522	(2)	6,221	13,504	55,759
3251	Brick and hollow tile.....	89	72	5,065	20,736	4,577	9,606	17,792	31,745	42,353	3,652	4,939	19,138
3254	Sewer pipe.....	6	6	989	3,358	929	1,753	3,093	4,563	6,212	159	997	4,200
3259	Structural clay prod., nec..	10	6	407	1,493	353	740	1,246	2,713	3,426	132	(D)	(D)
326	Pottery & related products	178	64	15,744	58,600	13,380	26,115	45,343	88,484	(2)	3,239	18,780	74,403
3261	Vitreous plumbing fixtures..	14	11	4,195	18,333	3,518	7,015	14,760	32,453	46,982	476	3,906	22,088
3262	Vitreous-china food utensils	14	12	5,365	18,272	4,573	8,824	14,022	24,287	29,258	1,141	7,199	21,429
3269	Pottery products, nec.....	91	13	1,181	3,702	1,045	2,030	2,805	5,840	7,931	232	1,144	4,256
327	Concrete & plaster prod...	865	174	15,278	60,990	12,063	25,991	43,902	125,067	(2)	10,227	11,798	66,409
3271	Concrete products.....	803	140	10,153	38,539	7,800	16,550	26,612	72,212	136,986	7,369	7,413	34,487
3272	Gypsum products.....	18	12	2,616	12,320	2,217	5,115	9,943	35,065	63,042	1,309	(D)	(D)
329	Nonmet. mineral prod., nec.	416	168	30,256	131,100	23,332	45,520	91,497	246,567	(2)	14,023	(D)	(D)
3291	Abrasive products.....	100	37	9,812	45,864	6,921	13,182	28,546	89,918	150,142	3,099	9,802	60,860
3292	Asbestos products.....	35	23	8,358	35,774	6,741	13,638	27,688	68,728	128,231	4,833	8,181	47,830
3293	Gaskets and asbestos insula- tions.....	71	26	3,693	15,347	2,888	5,556	10,514	22,190	46,349	1,900	4,999	24,278
3295	Minerals: ground or treated	77	32	1,798	7,863	1,493	3,328	5,965	16,424	27,351	1,894	(D)	(D)
3297	Nonclay refractories.....	36	28	4,212	17,298	3,400	6,066	12,497	32,107	51,865	1,368	6,030	33,523
3298	Statuary and art goods.....	66	8	530	1,671	439	873	1,195	2,780	3,944	61	532	1,806
3299	Nonmet. mineral prod., nec..	31	14	1,851	7,281	1,447	2,874	5,088	14,417	25,822	865	853	4,398
33	Primary metal industries	1,414	808	349,387	1,572,712	289,470	546,482	1,209,429	2,664,909	(2)	199,766	378,561	1,805,376
331	Blast furnaces and steel mills.....	115	114	208,158	943,384	173,841	318,497	737,148	1,601,327	(2)	145,591	224,332	1,029,279
3312	Steel works & rolling mills..	109	109	204,972	927,664	171,596	313,968	726,960	1,563,468	(2)	142,658	(D)	(D)
3313	Electrometallurgical prod...	6	5	3,186	15,720	2,244	4,529	10,188	37,859	77,461	2,933	4,427	25,478
332	Iron and steel foundries..	355	272	43,502	184,176	36,919	69,857	141,947	269,455	(2)	10,303	58,074	240,858
3321	Gray-iron foundries.....	271	199	21,634	89,135	18,978	36,677	72,054	131,443	222,162	5,408	29,791	128,293
3322	Malleable-iron foundries....	19	18	3,432	13,998	3,013	5,749	11,585	17,599	25,733	339	5,087	19,637
3323	Steel foundries.....	65	55	18,436	81,043	14,927	27,430	58,307	120,412	186,145	4,555	23,196	92,928
3333	Primary zinc.....	3	3	2,500	11,728	1,693	2,030	6,823	26,520	62,433	601	3,630	(D)
3341	Secondary nonferrous metals.....	115	44	4,483	20,219	3,437	6,978	12,964	33,775	227,475	2,200	5,443	30,947
335	Nonferrous rolling and drawing.....	77	51	21,531	96,723	17,019	34,401	70,147	212,090	(2)	12,563	23,161	146,630
3351	Copper rolling and drawing..	26	19	9,326	42,016	7,843	15,539	32,907	107,512	390,289	4,118	14,043	99,810
3361	Nonferrous foundries.....	424	135	17,205	77,619	14,402	29,343	59,510	106,472	188,090	5,902	16,005	(D)
3392	Wire drawing.....	72	51	17,665	79,493	13,801	27,368	58,158	135,222	412,913	10,877	18,169	95,476
3399	Primary metal industries, n.e.c.....	146	58	8,734	39,058	6,944	13,700	28,789	64,325	171,705	3,884	8,187	47,272
34	Fabricated metal prod...	6,240	1,943	254,911	1,084,768	206,692	413,663	786,728	1,872,778	(2)	89,830	246,309	1,208,084
3411	Tin cans and other tinware	61	39	13,657	60,499	11,972	24,294	50,369	110,176	292,184	10,634	11,972	54,118
342	Cutlery, tools, and hard- ware.....	534	209	31,346	124,849	25,942	51,978	91,323	224,412	(2)	9,425	38,560	184,002
3421	Cutlery.....	82	39	6,956	26,127	5,783	11,784	18,722	48,947	71,316	871	10,034	49,993
3423	Hand tools, nec.....	112	46	6,030	23,381	4,911	9,489	16,582	40,541	64,572	1,340	9,293	44,736
3425	Hand saws and saw blades....	30	16	2,525	10,464	1,912	3,721	6,905	16,025	27,129	588	2,910	12,499
3429	Hardware, nec.....	235	89	14,094	57,859	11,794	24,076	43,253	107,243	186,778	6,327	14,064	67,355
343	Heating and plumbing equipment.....	343	141	21,930	92,118	17,163	32,825	65,113	165,003	(2)	6,949	28,534	136,973
3431	Plumbing fixtures and fit- tings.....	85	57	3,535	14,602	2,924	5,533	10,960	26,455	50,358	748	4,967	19,537
3439	Heating and cooking equip.. nec.....	258	107	18,395	77,516	14,239	27,292	54,146	138,547	266,691	6,200	23,567	117,436
344	Structural metal products.	1,926	639	78,482	364,416	61,606	124,546	257,118	645,666	(2)	30,882	60,182	313,163
3441	Structural & ornamental work	814	243	33,713	157,063	26,389	52,620	111,220	299,735	555,849	9,430	23,883	130,438
3442	Metal doors, sash, and trim.	346	132	13,198	56,527	10,497	21,384	40,371	98,590	185,325	11,447	6,848	35,285
3443	Boiler shop products.....	224	109	18,901	89,576	14,816	30,110	64,830	148,765	295,361	5,939	18,197	88,349
3444	Sheet-metal work.....	542	155	12,669	61,249	9,902	20,431	43,495	98,574	168,585	4,065	11,254	59,091

See footnotes at end of table.

## MANUFACTURES—AREA STATISTICS

## Middle Atlantic

Table 2.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Code	Industry group and industry	1954							1947				
		Establishments, number		All employees		Production workers			Value added by manu- facture (\$1,000)	Value of ship- ments (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
34	Fabricated metal products—Continued												
346	Metal stamping and coating	1,507	364	46,090	191,430	38,208	76,921	141,759	295,970	(2)	10,707	50,577	233,452
3463	Metal stampings.....	593	197	31,175	138,786	25,411	51,489	101,762	211,430	388,994	6,483	38,139	179,820
3465	Enameling and lacquering....	110	19	1,252	4,033	1,082	2,072	3,035	6,285	9,433	392	794	(D)
3466	Galvanizing.....	30	13	1,395	5,211	1,164	2,478	3,782	7,495	11,027	258	1,113	(D)
3467	Engraving on metal.....	97	11	1,219	4,338	1,026	2,065	3,321	6,309	8,658	199	1,266	6,250
3468	Plating and polishing.....	656	114	8,798	31,642	7,623	15,360	24,184	53,971	73,903	2,987	6,269	27,455
3471	Lighting fixtures.....	590	171	14,642	53,172	12,073	24,249	37,303	96,525	202,668	1,980	12,916	70,328
348	Fabricated wire products..	378	133	16,551	63,348	13,953	27,232	48,188	114,039	(2)	4,644	14,940	68,217
3481	Nails and spikes.....	18	6	383	1,400	321	653	912	2,178	3,822	56	510	1,839
3489	Wirework, nec.....	360	127	16,168	61,948	13,631	26,578	47,276	111,861	200,217	4,587	14,430	66,378
349	Metal products, nec.....	901	258	32,210	134,933	25,771	51,615	94,953	220,984	(2)	14,607	28,628	147,831
3493	Steel springs.....	29	15	2,615	11,381	2,098	3,977	8,486	16,567	37,869	(D)	3,334	(D)
3494	Bolts, nuts, washers, and rivets.....	90	49	12,131	55,255	9,043	17,958	36,005	87,123	145,943	6,477	11,105	60,738
3495	Screw machine products.....	361	86	5,701	22,626	4,868	10,018	16,957	37,034	62,217	2,186	4,372	20,417
3499	Fabricated metal prod., nec.	357	71	5,688	20,655	4,679	9,175	14,265	35,264	67,462	2,125	2,600	12,793
35	Machinery, except elec- trical.....	5,667	1,605	340,596	1,570,097	252,806	509,415	1,058,538	2,709,343	(2)	139,174	340,308	1,689,228
351	Engines and turbines.....	28	15	26,665	137,897	19,966	40,831	98,895	245,100	(2)	15,862	19,045	78,529
352	Tractors & farm machinery.	113	43	7,850	34,780	5,397	11,246	22,392	64,611	(2)	2,849	14,783	74,629
3521	Tractors.....	10	4	1,208	4,427	765	1,401	2,566	4,029	9,851	673	(D)	(D)
3522	Farm machinery (except tractors).....	103	39	6,642	30,353	4,631	9,845	19,826	60,582	114,429	2,175	(D)	(D)
353	Construction and mining machinery.....	114	61	10,152	42,522	7,617	14,762	29,539	74,321	(2)	4,336	15,893	85,176
354	Metalworking machinery....	1,440	267	44,068	209,287	34,772	72,346	152,325	366,723	(2)	18,259	38,391	193,617
3541	Machine tools.....	109	36	7,656	37,220	6,094	12,908	27,559	69,282	98,276	4,948	7,569	39,008
3542	Metalworking machinery.....	118	54	17,831	84,980	13,629	27,297	59,625	160,011	247,878	4,424	18,352	89,925
3544	Special dies and tools.....	1,031	139	13,168	64,344	11,009	24,015	50,164	96,966	124,273	6,489		
3545	Metalworking machinery at- tachments.....	182	38	5,412	22,741	4,039	8,124	14,976	40,463	60,926	2,397	12,386	64,165
355	Special-industry machin- ery, nec.....	834	322	46,014	213,600	34,085	68,349	140,390	333,176	(2)	11,070	59,195	307,047
3551	Food-products machinery....	143	56	4,888	21,272	3,632	7,403	13,786	34,499	55,210	821	9,210	46,892
3552	Textile machinery.....	178	63	10,814	47,869	8,401	16,590	32,933	71,767	105,663	2,754	14,790	81,638
3553	Woodworking machinery.....	30	16	1,354	6,426	938	1,821	3,592	12,509	18,873	795	2,214	11,434
3554	Paper-industries machinery..	63	37	4,833	24,177	3,578	7,687	15,721	35,169	56,172	1,197	6,108	28,156
3555	Printing-trades machinery...	141	48	10,812	52,838	8,253	16,139	36,220	81,494	113,067	2,437	12,844	70,024
3559	Special-industry mach., nec.	279	102	13,311	61,917	9,280	18,706	38,136	97,737	161,604	3,063	14,029	68,903
356	General industrial ma- chinery.....	576	288	68,595	337,713	45,807	91,839	190,802	551,772	(2)	32,597	63,293	347,757
3561	Pumps and compressors.....	95	51	21,196	92,142	14,597	28,982	58,621	170,018	305,906	5,766	20,818	104,098
3562	Elevators and escalators....	28	14	6,551	32,588	4,631	9,404	22,540	71,909	111,037	908	6,037	47,963
3563	Conveyors.....	78	38	5,755	27,012	3,791	7,493	15,546	50,393	89,537	1,782	3,504	22,874
3564	Blowers and fans.....	38	18	3,456	16,356	2,632	5,206	10,914	27,104	49,695	577	2,154	13,673
3566	Power-transmission equipment	96	53	10,294	46,659	7,177	14,457	28,230	74,494	120,245	3,104	12,132	59,663
3567	Industrial furnaces & ovens.	49	23	3,679	18,193	2,365	4,775	10,065	31,257	61,871	(D)	1,883	(D)
3569	General industrial machin- ery, nec.....	151	71	13,857	67,850	8,162	16,736	35,423	97,154	165,150	18,319	12,020	62,909
357	Office and store machines.	126	60	36,944	174,263	28,518	58,157	120,251	282,092	(2)	16,730	32,441	151,586
3571	Computing & related machines	30	19	22,575	117,242	16,095	33,405	73,229	157,034	274,743	14,691	(D)	(D)
3579	Office and store machines, nec.....	64	24	3,672	15,510	2,912	5,925	11,091	36,934	52,879	571	4,072	(D)
358	Service and household machines.....	280	128	42,957	191,853	31,025	61,143	123,922	367,641	(2)	14,126	48,411	216,763
3582	Laundry & dry-cleaning mach.	27	13	2,320	9,686	1,706	3,427	6,933	20,214	32,591	420	4,057	(D)
3583	Sewing machines.....	48	15	6,934	32,064	5,453	11,256	24,401	38,446	53,912	946	7,935	36,333
3585	Refrigeration machinery.....	141	67	27,834	125,502	19,769	38,593	77,821	266,071	(2)	10,388	27,184	108,243
3589	Service and household ma- chinery, nec.....	46	21	2,048	9,280	1,369	2,664	5,063	16,270	31,168	462	3,879	18,419
359	Miscellaneous mach. parts.	2,156	424	57,348	248,179	45,616	90,738	180,019	423,903	(2)	23,341	48,856	234,124
3591	Valves and fittings, ex- cept plumbing.....	147	83	16,433	67,888	12,675	24,445	47,878	116,228	187,966	5,047	18,324	85,638
3592	Fabricated pipe and fittings	76	38	4,111	21,576	3,160	5,396	14,979	49,505	79,581	1,528	3,626	18,023
3593	Ball and roller bearings....	34	29	12,913	57,611	10,222	20,220	41,855	94,037	143,016	8,712	12,548	62,838
3594	Industrial patterns and molds.....	416	46	3,721	16,840	3,178	6,679	13,399	26,204	34,755	1,323	1,325	34,755
3599	Machine shops.....	1,483	228	20,161	84,263	16,379	33,996	61,905	137,927	202,200	6,728	12,552	56,599

See footnotes at end of table.



## GEOGRAPHIC DIVISIONS

## Middle Atlantic

10-19

Table 2.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Code	Industry group and industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manu- facture (\$1,000)	Value of ship- ments (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
36	Electrical machinery....	1,944	961	332,716	1,399,364	245,020	478,384	913,259	2,666,677	( <sup>2</sup> )	107,940	288,098	1,359,433
361	Elec. industrial apparatus	671	356	120,902	537,114	89,000	173,314	357,616	1,081,846	( <sup>2</sup> )	41,467	115,893	593,821
3611	Wiring devices and supplies.	162	86	18,148	67,918	15,250	30,222	52,530	142,142	243,094	5,128	15,019	(D)
3613	Elec. measuring instruments.	128	64	11,974	53,928	9,036	17,897	35,220	86,072	127,290	2,114	7,480	(D)
3614	Motors and generators.....	80	53	36,120	165,136	26,327	49,637	110,114	297,834	484,360	15,683	41,310	199,954
3616	Electrical control apparatus	124	66	30,194	143,234	20,549	40,568	89,167	308,222	480,711	(D)	29,528	151,750
3617	Electrical welding apparatus	21	12	1,062	4,989	608	1,240	2,451	7,607	20,370	1,551	528	3,277
3621	Electrical appliances.....	94	32	7,166	27,352	5,606	10,892	19,036	59,988	105,661	5,203	6,599	31,519
3631	Insulated wire and cable...	53	20	5,863	25,282	4,798	9,773	19,202	49,271	155,283	3,206	10,216	53,161
3641	Engine elec. equipment....	48	34	10,718	43,065	7,940	15,804	27,986	63,774	105,154	2,606	7,180	29,640
3651	Electric lamps (bulbs)....	25	20	8,666	32,943	7,207	14,149	24,558	61,102	92,819	3,383	10,763	(D)
366	Communication equipment...	858	435	167,945	687,562	121,730	237,772	433,913	1,266,068	( <sup>2</sup> )	47,112	124,804	537,023
3661	Radios and related products.	620	324	108,359	441,332	78,742	155,119	277,568	837,575	( <sup>2</sup> )	23,052	69,244	328,508
3662	Electronic tubes.....	83	64	33,815	128,809	26,692	51,005	89,855	239,137	363,851	17,780	18,368	(D)
3663	Phonograph records.....	78	15	2,227	7,855	1,787	3,622	5,797	14,464	25,262	(D)	4,006	(D)
3664	Telephone & telegraph equip.	25	17	16,881	79,987	10,623	20,668	45,200	130,206	216,143	4,534	(D)	(D)
3669	Communication equip., nec...	52	15	6,662	29,578	3,886	7,357	15,491	44,684	64,096	(D)	7,804	30,983
369	Electrical products, nec...	195	62	11,454	46,044	8,736	16,677	30,945	84,626	( <sup>2</sup> )	4,961	(D)	(D)
3691	Storage batteries.....	42	20	6,228	27,381	4,523	8,575	18,268	45,864	104,539	3,538	7,685	45,826
3692	Primary batteries.....	7	6	1,534	5,496	1,238	2,427	3,999	9,423	18,438	584	(D)	(D)
3693	X-ray and therapeutic ap- paratus.....	48	11	876	3,644	629	1,161	2,059	6,782	12,004	178	(D)	(D)
3699	Electrical products, nec....	98	25	2,814	9,523	2,344	4,513	6,617	22,556	41,162	659	(D)	(D)
37	Transportation equipment	882	395	263,696	1,305,827	201,907	415,428	925,916	2,187,696	( <sup>2</sup> )	130,335	198,717	944,832
371	Motor vehicles & equipment	287	113	76,533	377,816	63,214	134,174	299,913	763,781	( <sup>2</sup> )	94,665	77,277	423,249
3713	Truck and bus bodies.....	123	32	3,843	15,716	3,163	6,234	11,773	23,128	48,119	692	3,940	(D)
3717	Motor vehicles and parts....	143	72	71,655	357,617	59,246	126,211	284,867	731,789	( <sup>2</sup> )	93,761	72,331	399,578
372	Aircraft and parts.....	248	150	135,662	685,432	96,785	201,165	444,780	1,106,805	( <sup>2</sup> )	14,435	(D)	(D)
3721	Aircraft.....	14	13	56,547	305,764	40,684	85,241	200,186	483,795	851,071	(D)	(D)	(D)
3722	Aircraft engines.....	54	45	41,595	198,021	28,415	57,674	121,659	348,797	712,102	4,405	10,649	(D)
373	Ships and boats.....	290	100	25,945	120,082	22,430	43,302	96,823	156,726	( <sup>2</sup> )	5,394	44,983	179,773
3731	Ship building & repairing...	101	64	23,286	110,027	20,126	38,612	88,522	143,237	210,001	4,791	40,519	163,262
3732	Boat building & repairing...	189	36	2,658	10,055	2,304	4,690	8,301	13,489	24,126	602	4,464	16,511
3741	Locomotives and parts.....	9	7	10,247	53,103	7,811	15,154	34,708	66,640	146,243	(D)	14,616	(D)
38	Instruments and related products.....	1,210	373	131,261	617,448	92,406	183,732	383,161	1,079,156	( <sup>2</sup> )	54,730	125,669	601,107
3811	Scientific instruments....	114	38	20,207	102,823	13,785	28,810	64,670	151,642	254,869	3,981	12,056	49,076
3821	Mech. measuring instru- ments.....	214	68	22,155	97,115	15,604	30,488	62,351	165,478	246,286	4,590	21,362	99,328
3831	Optical instruments and lenses.....	93	22	7,973	37,588	5,903	11,146	24,584	53,044	68,801	2,302	6,605	26,261
384	Medical equip. & supplies.	345	84	18,254	78,103	12,488	26,120	45,870	136,805	( <sup>2</sup> )	7,463	20,254	98,642
3841	Surgical and medical instru- ments.....	81	22	3,839	13,751	3,138	6,890	10,921	24,821	37,917	577	(D)	(D)
3842	Surgical appliances and sup- plies....	176	40	10,052	46,807	6,215	12,627	22,981	78,752	153,437	5,902	9,820	50,038
3843	Dental equipment & supplies.	88	22	4,362	17,545	3,134	6,603	11,966	33,231	49,105	982	(D)	(D)
3851	Ophthalmic goods.....	129	55	10,814	39,851	8,673	16,981	28,830	63,284	92,010	3,094	12,654	44,833
3861	Photographic equipment....	178	63	43,243	222,238	29,555	57,694	133,500	434,909	649,041	32,551	42,057	210,495
387	Watches and clocks.....	137	44	8,613	39,728	6,395	12,489	23,352	73,993	( <sup>2</sup> )	746	10,681	72,472
39	Miscellaneous manufac- tures <sup>5</sup> .....	7,266	1,934	248,008	944,775	197,401	382,751	648,013	1,596,084	( <sup>2</sup> )	53,348	178,848	838,413
391	Jewelry and silverware....	1,216	154	18,735	76,239	15,156	29,262	52,742	122,238	( <sup>2</sup> )	1,953	21,637	128,801
3911	Jewelry (precious metal)....	796	94	10,707	45,242	8,306	16,077	28,455	73,479	141,387	768	11,626	72,574
3914	Silverware and plated ware..	100	42	5,681	23,160	4,786	9,387	18,597	33,923	60,118	910	7,371	40,247
393	Musical instruments and parts.....	68	31	3,234	12,476	2,814	5,358	9,685	17,648	( <sup>2</sup> )	331	4,370	21,900
3931	Pianos.....	14	12	2,020	8,144	1,748	3,159	6,432	10,759	21,821	83	(D)	(D)
3939	Musical instruments, nec....	36	11	657	2,201	593	1,223	1,788	3,355	5,591	67	1,269	6,008
394	Toys and sporting goods...	1,007	356	36,710	103,120	32,657	59,671	80,078	186,629	( <sup>2</sup> )	6,597	26,515	106,010
3941	Games and toys, nec.....	413	149	18,273	51,732	16,144	29,751	40,445	99,370	185,722	3,911	12,180	52,216
3942	Dolls.....	383	137	12,934	34,196	11,806	20,997	26,827	57,816	126,062	2,011	6,984	29,101
3943	Children's vehicles.....	22	11	879	3,114	719	1,271	2,234	4,912	9,949	59	1,350	5,699
3949	Sporting and athletic goods.	189	59	4,624	14,076	3,987	7,650	10,570	24,531	46,319	615	6,001	18,994

See footnotes at end of table.

## MANUFACTURES—AREA STATISTICS

## Middle Atlantic

Table 2.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Code	Industry group and industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
39	Miscellaneous manufactures—Continued												
395	Office supplies.....	302	95	11,916	45,434	8,811	17,604	27,656	77,671	( <sup>2</sup> )	2,585	12,799	60,611
3951	Pens and mechanical pencils.....	69	31	3,251	11,244	2,655	5,348	7,578	20,545	33,483	498	4,126	21,248
3952	Lead pencils and crayons....	25	13	2,911	11,114	2,055	4,148	6,667	17,664	30,482	773	4,262	16,904
3953	Hand stamps and stencils....	115	22	2,147	8,520	1,549	3,092	5,350	12,055	17,606	370	1,836	(D)
3954	Artists' materials.....	56	12	1,161	4,162	863	1,576	2,367	7,141	14,311	261	477	(D)
3955	Carbon paper and inked ribbons.....	37	17	2,445	10,392	1,686	3,439	5,692	20,265	43,344	682	2,128	12,009
396	Costume jewelry and notions.....	1,480	370	31,627	93,213	26,967	51,001	67,316	149,618	( <sup>2</sup> )	3,991	33,266	138,138
3961	Costume jewelry.....	598	148	11,033	31,484	9,574	18,495	22,975	56,102	110,623	1,367	10,699	48,727
3962	Artificial flowers.....	328	72	5,099	12,400	4,712	8,553	9,874	20,827	36,971	242	5,791	(D)
3963	Buttons.....	300	76	4,921	13,990	4,287	8,206	10,463	23,509	41,791	819	(D)	(D)
3964	Needles, pins, and fasteners	254	74	10,574	35,339	8,394	15,745	24,003	49,178	92,728	1,561	11,642	50,745
3971	Plastics products, nec....	850	289	29,805	113,508	24,453	49,012	79,315	191,203	375,897	12,075	20,155	98,383
398 399	} Miscellaneous manufactures <sup>5</sup>	2,343	638	115,979	500,782	86,539	170,840	331,218	851,072	( <sup>2</sup> )	25,813	59,156	277,614
3981	Brooms and brushes.....	181	62	5,552	18,490	4,378	8,350	11,780	32,476	67,737	861	6,391	31,439
3984	Candles.....	41	14	2,196	7,137	1,649	3,474	4,549	12,280	21,392	570	2,028	7,826
3985	Fireworks and pyrotechnics..	21	6	340	1,017	291	599	739	1,708	3,152	(D)	789	(D)
3986	Jewelry and instrument cases	97	33	3,157	9,431	2,702	5,360	6,759	15,547	28,510	327	2,975	10,952
3988	Morticians' goods.....	89	35	3,533	13,617	2,919	5,878	10,105	20,734	35,060	922	4,324	22,364
3991	Beauty and barber-shop equipment.....	26	6	494	1,668	434	985	1,239	2,372	4,239	12	(D)	(D)
3992	Furs, dressed and dyed.....	134	33	3,068	14,679	2,652	4,162	11,759	20,931	25,346	162	6,570	39,559
3993	Signs and advertising displays.....	708	113	9,440	37,462	7,575	15,045	25,727	60,321	99,072	1,174	7,696	36,847
3994	Hairwork.....	92	26	1,517	4,029	1,312	2,368	2,980	6,566	12,168	134	1,067	4,068
3999	Miscellaneous products, nec.	402	95	11,055	41,419	8,473	16,675	26,254	68,684	130,314	2,620	11,997	54,927
19--	Ordnance and accessories....	125	100	65,261	319,026	45,068	90,573	204,561	548,463	( <sup>2</sup> )	17,180	(D)	(D)

Note: Detailed figures may not add to total because of independent rounding. D Withheld to avoid disclosing figures for individual companies. NA Not available. <sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industries (4-digit) and industry groups (3-digit) are not shown. Industries and industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "all industries" line. <sup>2</sup>The total value of shipments figures for industry groups and a few individual industries have not been published due to the extensive and unmeasurable duplication arising from shipments from one establishment to another in the same industry classification. (See Introduction.) <sup>3</sup>The 1954 and 1947 "all industries" totals are not strictly comparable because of differences in scope between the two years in major groups 20 and 24 (see footnote 4). <sup>4</sup>Comparable data for major groups 20 and 24 are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude establishments in S.I.C. Industry 2411, Logging Camps and Contractors, which are included in the scope of the 1954 Census; the 1947 Census also excludes plants processing and distributing fluid milk which in 1954 were classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
20	Food and kindred products except subgroup 202, Dairy products.....	271,000	2,394,000	272,963	1,822,069
24	Lumber and wood products except Industry 2411, Logging camps and contractors.....	35,869	173,892	37,335	142,888

<sup>5</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." Establishments which are Government-owned and operated are not included.



## GEOGRAPHIC DIVISIONS

10-21

## Middle Atlantic

Table 2.—DISTRIBUTION OF OPERATING MANUFACTURING ESTABLISHMENTS BY EMPLOYMENT SIZE GROUPS AND MAJOR INDUSTRY GROUPS, FOR THE DIVISION: 1954

20 Food and kindred products	26 Pulp paper and products	32 Stone, clay, and glass products	38 Instruments and related products
21 Tobacco manufactures	27 Printing and publishing	33 Primary metal industries	39 Miscellaneous manufactures (Includes Group 19 Ordnance and accessories)
22 Textile mill products	28 Chemicals and products	34 Fabricated metal products	
23 Apparel and related products	29 Petroleum and coal products	35 Machinery, except electrical	
24 Lumber and wood products	30 Rubber products	36 Electrical machinery	
25 Furniture and fixtures	31 Leather and leather goods products	37 Transportation equipment	

Division and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Middle Atlantic Division, total.....	82,380	8,020	247	3,710	20,833	3,372	2,789	1,757	8,838	2,964	323	303	2,181	2,420	1,414	6,240	5,667	1,944	882	1,210	7,266
1 to 4 employees.....	28,172	2,962	109	753	5,531	1,929	1,103	287	4,065	1,065	69	72	634	873	272	2,166	2,156	461	268	444	2,953
5 to 9 employees.....	13,494	1,384	35	545	3,208	619	520	203	1,650	455	68	55	338	395	156	1,058	989	258	97	220	1,241
10 to 19 employees.....	13,164	1,276	20	631	3,783	378	435	275	1,254	430	65	42	336	374	178	1,073	917	264	122	173	1,138
20 to 49 employees.....	14,350	1,202	26	814	5,217	298	409	394	1,022	436	40	43	373	344	246	986	807	331	128	138	1,096
50 to 99 employees.....	6,481	546	9	465	2,032	102	178	232	438	245	14	24	218	172	176	481	329	190	76	97	457
100 to 249 employees.....	4,152	422	18	361	862	43	113	256	261	192	26	27	196	139	159	288	228	185	75	71	230
250 to 499 employees.....	1,388	125	17	93	147	3	21	78	82	71	21	21	66	77	89	104	116	114	28	20	95
500 to 999 employees.....	678	73	11	35	42	...	7	26	33	36	11	12	19	27	64	62	64	70	28	21	37
1,000 to 2,499 employees.....	360	25	2	9	11	...	3	6	28	28	4	6	1	16	50	19	47	44	35	16	10
2,500 employees and over.....	141	5	...	4	...	...	...	...	5	6	5	1	...	3	24	3	14	27	25	10	9

## MANUFACTURES—AREA STATISTICS

## East North Central

Table 1A.—MANUFACTURING EMPLOYMENT AT OPERATING ESTABLISHMENTS AND CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARIES FOR THE DIVISION: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Year <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	(Number)	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
East North Central Division:						
1954.....	4,604,516	20,925,690	4,459,829	20,003,625	144,687	922,065
1953 <sup>2</sup> .....	5,134,894	22,848,598	5,000,314	22,124,246	134,580	724,352
1952 <sup>2</sup> .....	4,732,252	20,073,035	4,628,971	19,568,947	<sup>3</sup> 103,281	<sup>3</sup> 504,088
1951 <sup>2</sup> .....	4,688,445	18,709,529	4,585,164	18,205,441	103,281	504,088
1950 <sup>2</sup> .....	4,427,093	15,991,647	4,328,066	15,559,155	99,027	432,492
1949 <sup>2</sup> .....	4,106,312	13,953,890	4,008,911	13,542,806	97,401	411,084

Note: East North Central Division consists of: Ohio, Indiana, Illinois, Michigan, and Wisconsin.

<sup>1</sup>Employment data for administrative offices and auxiliaries are not available for the years prior to 1949.<sup>2</sup>The employment figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period. The employment figures for administrative and auxiliary units were compiled chiefly from Bureau of Old-Age and Survivors Insurance records and are not strictly comparable with the figures for these units that were collected by the Bureau of the Census for the year 1954.<sup>3</sup>The 1951 data are shown for 1952 since auxiliary and administrative unit data were not collected in 1952.

Table 1B.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS IN THE DIVISION: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Division and year	Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)	Horse power of prime movers and electric motors <sup>1</sup> (1,000 hp)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
East North Central:									
1954 <sup>2</sup> .....	58,946	4,459,829	20,003,625	3,489,654	6,964,115	14,265,381	36,500,510	2,653,891	32,814
1953 <sup>3</sup> .....		5,000,314	22,124,246	4,008,696	8,166,737	16,417,096	39,926,490	2,535,657	
1952 <sup>3</sup> .....		4,628,971	19,568,947	3,685,187	7,557,235	14,404,477	35,533,088	2,461,857	
1951 <sup>3</sup> .....		4,585,164	18,205,441	3,705,677	7,617,045	13,569,131	33,543,646	2,351,830	(NA)
1950 <sup>3</sup> .....	(NA)	4,328,066	15,559,155	3,496,240	7,170,060	11,592,155	29,818,015	(NA)	
1949 <sup>3</sup> .....		4,008,911	13,542,806	3,217,736	6,423,806	9,870,679	24,501,907		
1947.....	50,569	4,322,812	13,019,237	3,567,725		9,940,544	23,474,185	1,863,548	
1939.....	38,013	2,692,815	4,092,078	2,180,600		2,932,440	7,744,406		16,006
1929.....	46,396	2,949,356	4,841,271	2,542,176	(NA)	3,738,803	9,973,491	(NA)	12,175
1919.....	58,717	2,824,606	3,849,389	2,387,477		2,981,205	7,093,838		(NA)
1909.....	60,013	1,729,537	1,077,660	1,513,764		827,153	2,177,230		
1899.....	50,521	1,176,672	574,539	1,073,322		473,040	1,205,478		

NA Not available.

<sup>1</sup>Driven by purchased electricity.<sup>2</sup>The 1954 figures include data for establishments engaged in the processing and distribution of fluid milk, Industry Group 202, Dairy Products. These establishments were not included in the figures for the Annual Survey years 1949-1953 or earlier Census years. In addition, the 1954 Census and Annual Survey years include data for Logging Camps and Contractors, Industry 2411, which were not included within the scope of the 1947 Census and earlier Censuses. See footnotes to Table 2 for comparable 1954 and 1947 totals. There were also a number of changes in the definition of manufacturing industries during earlier Census years that affect the comparability of the historical series. Among the more important of these were: figures for 1935 and later years exclude data for "railroad repair shops" and "manufactured gas" which were included in 1899-1933 figures; the minimum size of establishment included for 1954 and 1947 was one employee, for 1939-1921 manufacturing establishments reporting value of shipments of \$5,000 or more were within scope whereas for 1919 and earlier years the cut-off was \$500. (This change in procedure has not appreciably affected the comparability of the historical data except for the figures on number of establishments.)<sup>3</sup>The employment and payroll figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period.



## GEOGRAPHIC DIVISIONS

10-23

## East North Central

Table 2.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Code	Industry group and industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manu- facture (\$1,000)	Value of ship- ments (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
	All industries, total.	58,946	20,506	4,459,829	20,003,625	3,489,654	6,964,115	14,265,381	36,500,510	( <sup>2</sup> )	2,653,891	34,322,812	323,474,185
20	Food and kindred prod- ucts.....	9,422	3,059	391,908	1,586,879	274,814	564,946	981,007	3,447,433	( <sup>2</sup> )	194,767	( <sup>4</sup> )	( <sup>4</sup> )
201	Meat products.....	1,163	405	80,239	347,380	62,569	131,474	253,690	524,206	( <sup>2</sup> )	25,164	74,961	358,042
2011	Meat packing, plants.....	585	208	59,066	263,890	45,938	97,181	196,684	378,269	( <sup>2</sup> )	18,570	58,451	270,418
2013	Prepared meats.....	323	137	15,882	70,745	11,955	25,379	46,967	121,792	( <sup>2</sup> )	5,155	(NA)	(NA)
2015	Poultry dressing, plants....	255	60	5,291	12,743	4,674	8,914	10,037	24,144	139,089	1,438	1,362	4,276
202	Dairy products.....	3,333	882	74,260	297,858	44,589	98,739	155,230	625,882	( <sup>2</sup> )	43,934	( <sup>4</sup> )	( <sup>4</sup> )
2021	Creamery butter.....	245	76	5,739	19,616	3,976	9,040	12,508	44,433	288,407	3,990	( <sup>4</sup> )	( <sup>4</sup> )
2022	Natural cheese.....	1,023	75	7,279	21,371	5,929	13,373	16,929	44,715	301,988	5,365	( <sup>4</sup> )	( <sup>4</sup> )
2023	Concentrated milk.....	141	88	6,140	24,436	5,115	11,753	19,552	73,311	310,061	4,211	( <sup>4</sup> )	( <sup>4</sup> )
2024	Ice cream and ices.....	392	109	7,696	29,600	4,439	8,793	13,785	66,188	150,035	5,576	( <sup>4</sup> )	( <sup>4</sup> )
2025	Special dairy products.....	68	31	4,373	16,862	3,653	7,556	13,223	38,000	185,345	(D)	( <sup>4</sup> )	( <sup>4</sup> )
2026	Fluid milk.....	240	21	2,368	8,921	1,657	3,543	5,695	20,087	71,389	(D)	( <sup>4</sup> )	( <sup>4</sup> )
2027	Fluid milk & other products.	1,224	482	40,662	177,050	19,818	44,679	73,534	339,145	968,470	21,885	( <sup>4</sup> )	( <sup>4</sup> )
203	Canned and frozen foods...	726	378	34,733	108,499	29,945	60,182	78,713	233,975	( <sup>2</sup> )	14,129	39,462	178,220
2033	Canned fruits & vegetables..	482	287	26,578	83,018	22,997	46,630	60,408	186,502	494,800	11,094	30,775	135,639
204	Grain mill products.....	570	170	26,372	113,875	19,283	40,227	76,751	361,810	( <sup>2</sup> )	15,425	25,644	226,111
2041	Flour and meal.....	127	43	5,998	27,225	4,332	9,512	17,726	73,435	348,574	3,995	6,876	61,685
2042	Prepared animal feeds.....	400	108	11,028	43,765	7,626	16,332	27,977	132,320	542,573	5,698	11,641	80,079
2043	Cereal breakfast foods.....	11	9	7,142	32,616	5,598	10,884	24,201	112,552	201,727	3,170	6,670	79,743
2045	Flour mixes.....	32	10	2,202	10,268	1,726	3,499	6,846	43,502	101,124	2,562	457	4,604
205	Bakery products.....	1,362	491	68,204	273,315	42,106	85,813	143,403	480,538	( <sup>2</sup> )	20,059	65,991	316,910
2051	Bread and related products..	1,307	451	54,912	226,317	31,763	65,457	110,184	354,620	688,062	16,759	54,268	248,705
2052	Biscuit and crackers.....	55	40	13,292	46,998	10,343	20,356	33,218	125,918	234,330	3,299	11,723	68,205
206	Sugar.....	9	9	1,109	4,587	899	2,060	3,512	8,276	( <sup>2</sup> )	306	1,846	7,629
207	Candy & related products..	320	107	21,457	73,322	17,221	34,035	51,252	190,145	( <sup>2</sup> )	6,614	23,322	187,486
2071	Confectionery products.....	310	99	19,757	65,935	15,906	31,446	46,415	144,207	338,621	4,965	21,021	154,387
208	Beverages.....	998	337	50,716	230,095	32,283	62,135	131,482	618,709	( <sup>2</sup> )	43,466	54,031	553,145
2081	Bottled soft drinks.....	813	210	17,017	65,059	8,091	15,572	23,351	127,464	214,519	9,542	14,555	77,686
2082	Beer and ale.....	107	86	25,109	125,793	17,182	33,886	79,920	337,111	564,754	28,515	27,745	289,648
2083	Malt.....	23	18	1,813	10,443	1,408	2,803	7,021	34,064	134,602	2,199	1,677	38,163
209	Miscellaneous foods.....	941	277	34,814	137,944	25,916	50,277	86,970	403,888	( <sup>2</sup> )	25,665	35,893	334,177
2092	Shortening and cooking oils.	19	11	2,753	13,287	2,021	4,194	9,211	38,936	270,527	4,195	(D)	(D)
2094	Corn wet milling.....	12	6	8,503	36,360	6,666	12,711	26,246	110,569	283,946	11,851	7,833	87,203
2095	Flavorings.....	134	28	2,676	11,342	1,749	3,170	5,211	39,802	87,148	1,323	2,685	28,875
2097	Manufactured ice.....	184	41	2,673	9,799	1,712	3,690	5,870	16,818	20,525	762	6,458	35,489
2098	Macaroni and spaghetti.....	51	18	1,399	4,045	1,148	2,031	2,872	8,044	27,826	337	(D)	(D)
2099	Food preparations, nec.....	521	159	14,765	54,329	11,150	21,547	31,625	152,129	558,618	6,448	13,076	89,905
21	Tobacco manufactures....	84	20	4,034	(D)	3,551	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2121	Cigars.....	62	12	2,686	6,565	2,410	4,320	5,004	13,701	22,887	176	(D)	(D)
22	Textile mill products...	370	204	35,535	125,977	30,191	58,854	91,251	218,079	( <sup>2</sup> )	7,435	46,284	215,705
221	Woolen and worsted manu- facture.....	38	27	5,457	17,856	4,860	9,291	13,992	26,655	( <sup>2</sup> )	691	7,471	38,391
225	Knitting mills.....	112	70	12,569	38,095	10,935	20,257	27,349	57,570	( <sup>2</sup> )	1,329	20,042	73,733
2251	Full-fashioned hosiery mills	21	14	2,876	9,639	2,346	4,412	6,587	15,349	( <sup>2</sup> )	127	7,175	30,755
2252	Seamless hosiery mills.....	18	12	2,816	6,907	2,551	4,601	5,466	11,072	23,521	305	3,614	10,173
2253	Knit outerwear mills.....	47	26	3,326	10,644	2,958	5,439	7,294	16,891	35,272	(D)	(D)	(D)
2261	Finishing textiles except wool.....	25	10	1,084	4,800	855	1,796	3,126	6,101	12,181	356	(D)	(D)
228	Hats, except cloth and millinery.....	9	5	359	829	342	589	737	1,482	( <sup>2</sup> )	9	(D)	(D)
229	Miscellaneous textile goods.....	122	61	10,573	45,646	8,575	18,097	32,181	89,853	( <sup>2</sup> )	4,448	10,880	67,804
2293	Padding and upholstery fil- ling.....	52	25	3,312	13,653	2,843	5,937	10,555	26,793	58,867	1,590	3,527	(D)
2294	Processed textile waste.....	21	9	638	1,957	543	1,112	1,597	3,015	8,148	118	540	2,279
2298	Cordage and twine.....	17	9	936	3,174	804	1,558	2,386	5,335	12,228	258	(D)	(D)
23	Apparel and related products.....	2,406	954	110,567	316,448	95,201	168,962	231,606	495,060	( <sup>2</sup> )	13,198	126,956	508,445
231	Men's & boys' suits & coats	158	85	20,432	63,325	17,532	29,351	47,798	85,205	( <sup>2</sup> )	1,050	26,832	117,868
2311	Men's & boys' suits & coats.	143	78	20,212	62,724	17,343	29,016	47,340	84,317	158,364	(D)	26,456	(D)
2312	Suit and coat findings.....	15	7	220	600	188	335	458	888	2,302	(D)	(D)	(D)

See footnotes at end of table.

## MANUFACTURES—AREA STATISTICS

## East North Central

Table 2.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Code	Industry group and industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manu- facture (\$1,000)	Value of ship- ments (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (\$1,000)	Wages (\$1,000)					
23	Apparel and related products—Continued												
232	Men's & boys' furnishings.	372	180	21,675	54,382	19,201	33,782	40,630	84,873	( <sup>2</sup> )	989	25,094	83,802
2321	Men's dress shirts and nightwear.....	37	19	3,846	10,648	3,257	6,106	7,554	15,676	51,114	168	4,788	15,177
2322	Men's and boys' underwear...	5	3	583	1,168	529	981	1,020	1,651	3,641	(D)	(D)	(D)
2323	Men's and boys' neckwear...	35	9	881	2,342	722	1,093	1,417	3,505	7,350	(D)	997	4,425
2325	Men's and boys' cloth hats...	52	15	1,321	3,589	1,187	2,102	2,710	6,044	10,147	19	1,415	4,397
2327	Separate trousers.....	91	41	4,864	11,845	4,450	7,512	9,376	19,842	40,747	259	5,696	22,020
2329	Men's & boys' clothing, nec.	148	92	9,859	24,285	8,745	15,556	18,144	37,372	92,355	497	10,785	33,630
233	Women's and misses' outerwear.....	483	279	27,279	76,303	23,710	41,853	56,715	118,561	( <sup>2</sup> )	1,314	34,302	136,839
2331	Blouses.....	30	17	938	2,413	810	1,399	1,958	3,971	6,989	37	(D)	(D)
2333	Dresses, unit price.....	150	97	8,284	25,120	7,129	12,466	18,305	37,968	72,617	480	10,355	50,433
2334	Dresses, dozen price.....	137	96	11,810	28,210	10,365	18,529	21,163	45,184	89,826	622	15,431	47,433
2337	Women's suits, coats, and skirts.....	139	55	5,052	17,349	4,407	7,474	13,171	26,097	53,930	124	...	...
234	Women's undergarments....	100	64	7,729	21,480	6,692	11,307	14,626	43,769	( <sup>2</sup> )	629	9,433	43,564
2341	Women's and children's underwear.....	57	32	3,099	7,950	2,804	4,796	6,067	11,745	26,827	306	(D)	(D)
2342	Corsets and allied garments.	43	32	4,629	13,529	3,887	6,511	8,559	32,024	55,889	322	(D)	(D)
2351	Millinery.....	52	21	1,601	5,191	1,393	2,516	3,963	7,974	12,481	(D)	2,259	9,014
236	Children's outerwear.....	56	33	2,899	6,669	2,606	4,708	5,262	11,439	( <sup>2</sup> )	156	1,841	5,927
2361	Children's dresses.....	20	8	514	1,149	479	922	974	2,232	4,269	21	410	950
2363	Children's coats.....	6	4	445	1,104	369	596	707	1,439	3,163	12	285	720
2369	Children's outerwear, nec...	30	21	1,939	4,416	1,757	3,189	3,581	7,767	16,984	123	1,146	4,257
2371	Fur goods.....	81	2	325	1,291	247	476	922	2,877	5,983	(D)	592	4,788
238	Miscellaneous apparel.....	182	97	9,757	25,289	8,584	15,698	19,201	39,941	( <sup>2</sup> )	428	10,421	35,104
2382	Fabric work gloves.....	54	38	3,990	7,126	3,384	5,868	6,159	11,243	23,829	149	4,822	14,518
2384	Robes and dressing gowns....	11	5	450	1,089	384	684	757	1,888	4,220	10	572	2,347
2386	Leather and sheep-lined clothing.....	17	10	594	1,787	513	916	1,374	2,222	5,287	24	1,007	4,599
2389	Apparel, nec.....	23	9	1,121	3,172	905	1,794	2,069	4,230	7,069	132	(D)	(D)
239	Fabricated textiles, nec...	922	193	18,866	62,516	15,233	29,267	42,485	100,417	( <sup>2</sup> )	8,583	16,182	71,539
2391	Curtains and draperies.....	123	20	1,313	3,603	1,083	1,999	2,358	5,706	13,013	294	533	2,195
2392	Housefurnishings, nec.....	161	44	3,274	10,246	2,688	5,089	6,571	19,497	47,635	858	3,093	14,132
2393	Textile bags.....	45	15	1,279	3,786	1,013	1,892	2,525	5,970	23,071	251	1,460	9,711
2394	Canvas products.....	252	41	4,072	13,192	2,989	5,951	7,834	19,087	40,134	347	3,113	11,335
2395	Tucking, pleating and stitching.....	24	4	255	596	231	373	493	902	1,102	(D)	583	1,851
2396	Trimings and art goods.....	60	23	4,380	18,183	3,620	7,397	13,978	26,835	99,497	6,356	2,373	10,899
2399	Textile products, nec.....	190	38	3,674	11,443	3,052	5,602	7,587	20,186	57,352	450	4,261	18,615
24	Lumber and wood products	4,303	655	66,020	216,759	56,266	111,257	162,080	340,851	( <sup>2</sup> )	16,234	( <sup>4</sup> )	( <sup>4</sup> )
2411	Logging camps and contrac- tors.....	930	23	3,836	7,521	3,528	5,661	6,911	13,170	21,698	1,522	( <sup>4</sup> )	( <sup>4</sup> )
242	Lumber and basic products.	1,739	159	16,063	45,030	14,362	28,157	36,448	71,168	( <sup>2</sup> )	3,751	17,841	66,562
2421	Sawmills and planing mills..	1,672	115	13,005	34,206	11,668	22,594	28,315	52,709	101,880	3,244	15,053	54,256
2422	Veneer mills.....	40	33	2,269	8,068	1,970	4,185	5,777	14,000	26,002	365	(D)	(D)
243	Millwork and related prod- ucts.....	738	212	26,336	101,681	21,145	43,357	70,765	160,046	( <sup>2</sup> )	7,838	21,890	94,098
2431	Millwork plants.....	623	144	16,712	65,798	13,326	27,724	46,012	94,702	212,432	4,774	13,179	59,297
244	Wooden containers.....	353	120	8,667	25,985	7,703	15,176	20,673	37,654	( <sup>2</sup> )	1,163	12,186	50,893
2444	Wooden boxes.....	261	90	6,413	19,715	5,642	11,306	15,392	29,438	59,219	921	8,601	38,690
2445	Cooperage.....	41	8	956	3,444	885	1,696	3,000	3,867	12,374	134	1,823	7,982
249	Miscellaneous wood prod- ucts.....	542	140	11,116	36,541	9,526	18,905	27,281	58,811	( <sup>2</sup> )	1,958	14,568	62,319
2491	Wood preserving.....	28	17	1,143	3,693	995	1,923	3,001	7,462	18,346	331	2,301	13,707
2492	Lasts and related products..	5	2	133	533	112	236	375	714	958	(D)	287	1,508
2493	Mirror and picture frames...	63	20	2,583	9,601	2,200	4,483	6,964	14,695	25,132	(D)	2,115	8,757
2499	Wood products, nec.....	446	101	7,256	22,713	6,218	12,261	16,939	35,938	67,344	1,414	9,865	38,347
25	Furniture and fixtures..	1,926	768	102,142	404,039	84,169	167,733	299,298	655,879	( <sup>2</sup> )	23,785	108,935	488,717
251	Household furniture.....	1,149	522	64,795	244,635	53,935	107,299	183,392	381,385	( <sup>2</sup> )	13,308	70,497	299,183
2511	Wood furniture, not uphstd.	514	241	28,392	98,427	24,584	49,824	76,618	141,809	257,122	3,504	36,950	139,108
2512	Uphstd. household furniture	301	140	13,304	50,566	11,220	21,688	37,658	80,200	156,744	1,853	12,129	56,466
2514	Metal household furniture...	151	81	13,099	53,759	10,416	20,306	38,024	94,065	189,439	4,659	(D)	(D)
252	Office furniture.....	72	44	10,455	44,727	8,805	17,149	34,895	78,300	( <sup>2</sup> )	3,027	11,282	58,023
2521	Wood office furniture.....	33	19	2,018	7,054	1,719	3,341	5,331	10,771	18,827	146	(D)	(D)
2522	Metal office furniture.....	39	25	8,437	37,672	7,086	13,807	29,563	67,529	110,380	2,881	(D)	(D)

See footnotes at end of table.



## GEOGRAPHIC DIVISIONS

10-25

## East North Central

Table 2.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Code	Industry group and industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manu- facture (\$1,000)	Value of ship- ments (\$1,000)	Capital ex- pendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
25	Furniture and fixtures-- Continued												
253	Public and professional furniture.....	123	58	8,984	38,050	6,972	14,546	26,949	62,252	(2)	2,265	8,759	39,362
2531	Public-building furniture.....	85	40	5,823	24,586	4,628	9,520	17,901	39,589	72,787	1,755	5,515	23,278
2532	Professional furniture.....	38	18	3,160	13,464	2,343	5,026	9,048	22,663	38,787	510	3,244	16,084
2541	Partitions and fixtures...	325	94	12,301	55,984	9,956	19,885	39,492	94,490	159,652	3,815	10,382	54,586
256	Screens, shades, & blinds.	223	42	4,562	16,712	3,621	7,060	11,688	32,730	(2)	1,233	6,629	30,526
2561	Window and door screens....	50	16	1,178	4,881	980	1,927	3,496	9,610	20,901	471	1,174	7,181
2562	Window shades.....	51	11	2,306	8,530	1,843	3,630	6,116	17,576	36,256	386	3,320	(D)
2563	Venetian blinds.....	122	15	1,077	3,300	796	1,502	2,075	5,543	11,822	376	2,135	(D)
259	Furniture & fixtures, nec.	34	9	1,043	3,930	878	1,792	2,878	6,719	(2)	135	1,386	7,034
26	Pulp, paper and products	1,159	783	138,108	601,473	113,100	239,566	447,224	1,146,876	(2)	87,281	122,989	776,060
261	Pulp, paper and board.....	221	208	47,383	219,100	40,227	89,466	175,490	471,831	(2)	45,103	48,739	341,271
2611	Pulp mills.....	48	39	6,400	27,251	5,568	11,636	22,670	49,015	141,027	3,961	6,575	37,617
2612	Paper and paper board mills.	157	153	39,643	185,865	33,499	75,342	147,912	410,054	971,372	40,460	40,570	290,723
2613	Building paper & board mills	16	16	1,339	5,984	1,160	2,488	4,908	12,761	30,323	682	1,594	12,931
2641	Paper coating and glazing.	76	48	10,404	45,989	8,415	18,042	34,273	85,580	232,455	6,777	7,115	51,810
2651	Envelopes.....	40	36	4,905	20,326	4,073	8,177	14,312	31,270	61,405	(D)	4,376	20,294
2661	Paper bags.....	77	36	5,684	22,314	4,468	9,051	14,718	35,721	97,578	2,316	4,457	21,099
267	Paperboard containers.....	423	281	41,477	177,710	33,089	68,144	124,226	300,480	(2)	17,650	33,577	210,797
2671	Paperboard boxes.....	379	256	38,561	166,487	30,541	62,830	115,124	282,270	696,606	16,871	30,891	201,329
2674	Fiber cans, tubes, drums, etc.....	44	25	2,916	11,223	2,547	5,314	9,101	18,210	38,068	778	2,686	9,468
269	Pulp, paper and products, nec.....	322	174	28,253	116,033	22,826	46,682	84,204	221,992	(2)	(D)	24,725	130,789
2699	Paper & board products, nec.	195	118	21,640	88,990	17,512	36,097	64,911	179,635	445,280	9,312	19,061	104,288
27	Printing and publishing.	7,329	1,603	218,091	1,028,416	141,218	274,406	636,091	1,712,835	(2)	73,998	195,263	1,169,861
2711	Newspapers.....	1,803	376	63,474	300,909	33,066	61,437	159,380	503,059	728,941	23,408	50,908	323,116
2721	Periodicals.....	459	100	13,306	60,461	5,134	9,150	20,127	142,824	217,764	5,444	17,308	154,159
273	Books.....	295	92	16,456	71,770	8,049	15,895	33,697	154,557	(2)	4,643	14,128	86,986
2731	Books; publishing & printing	169	55	10,213	42,313	2,837	5,546	10,980	112,300	194,518	2,518	9,706	64,385
2732	Book printing.....	126	37	6,242	29,457	5,211	10,348	22,716	42,257	68,493	2,125	4,422	22,601
2751	Commercial printing.....	2,765	432	64,340	306,210	50,716	100,094	224,679	467,733	763,333	22,997	64,738	340,412
2761	Lithographing.....	754	243	24,610	123,644	19,258	37,988	85,340	183,948	305,203	9,843	15,127	90,535
278	Bookbinding and related industries.....	297	100	9,944	37,047	8,037	15,606	25,961	55,303	(2)	2,292	10,207	43,237
2781	Bookbinding.....	146	54	4,257	15,362	3,824	7,241	12,392	22,244	30,312	991	(D)	(D)
2782	Blankbooks and paper ruling.	61	21	2,438	8,882	1,714	3,434	5,477	13,334	21,821	638	(D)	(D)
2783	Loose-leaf binders and de- vices.....	45	15	2,410	9,866	1,777	3,603	6,088	15,123	24,188	347	(D)	(D)
2789	Miscellaneous bookbinding work.....	45	10	838	2,936	720	1,326	2,002	4,600	6,527	314	(D)	(D)
279	Printing trade services...	698	199	14,116	85,526	10,872	22,475	62,840	117,257	(2)	3,665	12,274	80,940
2791	Typesetting.....	271	57	4,139	24,320	3,308	6,937	18,162	33,557	37,500	1,284	3,296	21,333
2792	Engraving and plate printing	123	13	1,276	5,121	1,017	1,935	3,480	7,866	10,717	419	1,078	4,735
2793	Photoengraving.....	227	91	5,644	37,011	4,120	8,814	26,620	47,571	54,199	1,278	4,828	34,842
2794	Electrotyping & stereotyping	77	38	3,045	19,065	2,414	4,775	14,562	28,249	34,813	672	3,072	20,030
28	Chemicals and products..	2,351	833	166,300	797,959	111,519	226,029	460,329	2,163,190	(2)	176,257	142,319	1,344,035
281	Inorganic chemicals.....	110	59	24,697	119,943	17,856	36,879	81,312	270,021	(2)	42,812	19,575	131,226
282	Organic chemicals.....	150	99	38,261	188,061	27,476	56,029	122,731	410,696	(2)	62,192	20,123	188,892
2822	Intermediates and organic colors.....	18	16	12,019	62,017	8,519	16,835	39,087	139,043	250,159	21,748	(NA)	(NA)
2826	Explosives.....	20	15	11,593	55,020	8,653	18,479	39,290	68,575	124,948	956	(D)	(D)
283	Drugs and medicines.....	292	91	30,734	152,214	19,014	37,544	73,918	435,809	(2)	20,255	30,125	279,741
2831	Biological products.....	20	11	910	3,653	644	1,276	2,204	9,429	14,316	1,079	651	(D)
2833	Medicinal chemicals.....	27	7	568	2,910	413	798	1,657	6,571	12,538	2,104	(D)	(D)
2834	Pharmaceutical preparations.	245	73	29,255	145,651	17,957	35,469	70,057	419,809	593,147	17,071	26,788	246,817
284	Soap and related products.	372	76	14,179	70,883	8,545	16,789	35,291	317,811	(2)	10,284	14,376	219,764
2841	Soap and glycerin.....	78	20	8,499	43,297	5,309	10,501	23,509	183,329	346,012	4,334	9,790	(D)
2842	Cleaning and polishing prod- ucts.....	285	54	5,596	27,091	3,196	6,203	11,598	133,635	243,117	5,906	4,561	(D)
285	Paints and allied products	423	182	22,198	106,217	13,415	26,393	51,799	256,160	(2)	7,236	22,522	193,964
2851	Paints and varnishes.....	370	164	20,111	96,648	11,898	23,411	45,976	236,278	542,585	6,287	19,417	172,416
2852	Inorganic color pigments...	21	12	1,632	7,199	1,252	2,458	4,880	15,536	38,678	772	2,554	(D)
2853	Whiting and fillers.....	32	6	455	2,370	264	523	942	4,346	9,371	176	517	(D)

See footnotes at end of table.

## MANUFACTURES—AREA STATISTICS

East North Central

Table 2.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Code	Industry group and industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
28	Chemicals and allied products—Continued												
287	Fertilizers.....	116	71	5,721	23,328	4,455	9,604	16,490	60,084	(2)	10,478	4,841	(D)
2871	Fertilizers.....	55	48	4,483	18,320	3,508	7,498	13,220	46,466	161,960	6,339	3,659	26,063
2872	Fertilizers, mixing only....	61	23	1,238	5,007	947	2,106	3,269	13,618	52,847	4,139	1,134	(D)
288	Vegetable and animal oils.	142	70	8,837	40,476	6,414	14,391	27,182	111,818	(2)	9,747	9,205	121,178
2883	Soybean oil mills.....	35	32	4,286	19,074	3,303	7,196	13,378	65,470	524,729	4,365	3,769	72,709
2887	Fatty acids.....	7	6	1,391	7,680	818	1,847	4,358	17,358	42,735	3,576	(D)	(D)
2891	Printing ink.....	76	30	2,612	12,390	1,839	3,748	7,368	32,649	68,916	1,069	2,085	18,122
2893	Toilet preparations.....	141	35	5,021	20,548	3,269	6,245	10,178	110,413	167,265	2,101	6,181	44,005
2894	Glue and gelatin.....	56	19	1,850	8,053	1,382	2,573	4,931	16,749	33,409	584	2,299	18,230
2896	Compressed & liquefied gases.....	88	30	2,139	10,207	1,234	2,690	5,627	29,056	39,184	2,784	2,120	16,028
2898	Salt.....	8	7	1,678	6,967	1,426	3,015	5,689	19,943	30,118	975	1,971	9,717
2899	Chemical products, nec....	339	59	7,223	34,675	4,257	8,262	14,993	85,979	171,609	5,268	6,049	64,002
29	Petroleum and coal products.....	321	171	49,520	253,830	38,406	76,515	184,144	621,713	(2)	157,692	47,841	425,121
2911	Petroleum refining.....	62	54	27,834	150,915	21,005	41,057	108,453	408,682	2,156,516	115,391	26,574	258,397
293	Coke and byproducts.....	32	32	11,660	55,483	10,192	20,098	45,683	114,854	(2)	37,076	11,968	84,432
2932	Byproduct coke ovens.....	32	32	11,660	55,483	10,192	20,098	45,683	114,854	443,506	37,076	11,968	84,432
295	Paving & roofing materials	121	42	6,855	30,805	5,387	11,680	22,360	65,792	(2)	3,813	6,471	50,913
2951	Paving mixtures and blocks..	69	8	987	4,681	717	1,510	2,755	11,364	27,344	1,011	645	5,378
2952	Roofing felts and coatings..	52	34	5,868	26,124	4,670	10,170	19,604	54,427	140,416	2,801	5,826	45,535
299	Petroleum and coal products, nec.....	106	43	3,171	16,626	1,822	3,678	7,647	32,384	(2)	1,411	2,828	31,379
2992	Lubricants, nec.....	90	33	2,440	13,033	1,293	2,582	5,409	24,541	70,947	(D)	2,152	23,288
2999	Petroleum & coal prod., nec.	16	10	731	3,593	529	1,096	2,238	7,743	22,363	(D)	(D)	(D)
30	Rubber products.....	412	233	109,315	491,110	85,631	158,129	351,591	765,772	(2)	50,529	124,381	583,613
31	Leather and leather goods.....	552	283	58,861	183,526	52,086	95,711	146,502	307,433	(2)	5,742	75,350	319,969
3111	Leather tanning & finishing.....	79	54	10,598	45,723	9,470	19,083	37,334	69,849	174,363	2,048	14,153	(D)
3121	Industrial leather belting	22	10	2,058	8,583	1,570	3,125	5,672	18,578	34,677	(D)	1,855	10,669
3131	Footwear cut stock.....	32	12	948	2,757	844	1,593	2,179	4,037	11,347	422	1,859	9,311
314	Footwear, except rubber...	166	130	38,968	108,127	34,725	61,729	87,525	185,476	(2)	1,906	46,963	156,970
3141	Footwear, except rubber.....	153	124	38,333	106,439	34,187	60,812	86,435	183,250	329,055	1,880	46,087	153,894
3142	House slippers.....	13	6	635	1,687	537	917	1,089	2,225	4,921	25	876	3,076
315	Leather gloves.....	53	28	2,023	4,805	1,815	3,107	3,787	8,473	(2)	(D)	3,675	10,285
3161	Luggage.....	95	32	2,490	8,046	2,178	4,221	6,202	12,074	22,618	121	4,129	17,635
317	Purses and small leather goods.....	40	8	1,085	3,605	870	1,687	2,283	5,955	(2)	70	1,428	5,167
3171	Handbags and purses.....	12	2	251	717	236	459	653	1,264	2,224	9	(D)	(D)
3172	Small leather goods.....	28	6	834	2,888	634	1,228	1,630	4,691	7,980	60	(D)	(D)
319	Miscellaneous leather goods.....	65	9	689	1,878	612	1,162	1,517	2,989	(2)	(D)	(D)	(D)
32	Stone, clay, and glass products.....	2,736	866	143,385	593,418	121,272	243,369	466,980	1,147,760	(2)	91,632	131,877	689,435
322	Pressed and blown glassware.....	84	58	29,145	110,708	25,420	49,521	92,295	230,448	(2)	10,704	(D)	(D)
3221	Glass containers.....	19	19	15,517	61,329	13,768	27,703	51,889	121,667	202,522	7,690	15,710	85,073
3229	Pressed & blown glass, nec..	65	39	13,628	49,378	11,651	21,817	40,406	108,781	153,785	3,013	(D)	(D)
3231	Products of purchased glass.....	172	45	8,662	43,802	7,396	15,394	36,530	117,674	230,780	3,397	8,642	64,651
3241	Cement, hydraulic.....	26	26	8,230	36,774	7,098	15,310	30,553	106,706	166,709	11,894	7,387	49,426
325	Structural clay products..	281	209	22,823	90,005	20,121	40,211	73,859	134,383	(2)	6,763	21,631	95,236
3251	Brick and hollow tile.....	118	98	8,282	34,491	7,437	15,561	29,241	55,067	75,120	2,983	7,448	33,018
3254	Sewer pipe.....	29	27	4,562	16,863	4,142	7,699	14,670	22,594	31,670	1,127	4,361	18,744
3255	Clay refractories.....	58	42	3,250	12,317	2,802	4,957	9,522	17,968	27,052	976	3,415	15,885
326	Pottery and related products.....	173	83	17,873	62,003	15,798	29,240	50,674	88,723	(2)	4,973	19,378	82,147
3262	Vitreous-china food utensils	7	7	2,343	6,969	2,188	3,581	5,984	7,966	10,276	39	(D)	(D)
3264	Porcelain electrical supplies.....	11	9	3,079	12,731	2,643	5,115	10,118	18,382	26,057	3,608	(D)	(D)

See footnotes at end of table.



GEOGRAPHIC DIVISIONS  
East North Central

10-27

Table 2.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Code	Industry group and industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manu- facture (\$1,000)	Value of ship- ments (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
32	Stone, clay, and glass products--Continued												
327	Concrete and plaster products.....	1,413	213	23,422	99,055	17,869	38,014	69,135	189,714	( <sup>2</sup> )	15,970	18,356	93,810
3271	Concrete products.....	1,329	163	13,573	55,707	10,269	21,511	36,750	98,840	175,720	10,167	9,861	48,728
3272	Gypsum products.....	21	10	1,769	8,352	1,486	3,594	6,821	21,669	41,221	809	(D)	(D)
3274	Lime.....	36	23	2,621	11,525	2,227	4,794	9,231	23,859	45,423	1,071	(D)	(D)
3275	Mineral wool.....	27	17	5,457	23,470	3,885	8,114	16,332	45,345	78,801	3,922	4,931	21,153
329	Nonmet. mineral prod., nec.....	404	170	21,541	92,160	17,210	34,228	63,732	175,246	( <sup>2</sup> )	13,641	(D)	(D)
3291	Abrasive products.....	121	57	5,109	21,295	3,848	7,413	12,989	41,133	73,815	(D)	4,406	27,964
3292	Asbestos products.....	21	17	4,755	20,769	3,706	7,393	14,970	43,133	87,399	2,727	(D)	(D)
3293	Gaskets and asbestos insulations.....	92	41	6,771	30,509	5,488	11,273	20,811	46,921	80,888	(D)	6,326	33,463
3295	Minerals: ground or treated.	78	25	1,735	7,899	1,460	3,189	5,966	20,796	34,276	4,734	(D)	(D)
3297	Nonclay refractories.....	15	11	1,651	6,118	1,464	2,469	5,062	14,128	22,193	496	1,569	7,415
3298	Statuary and art goods.....	60	12	773	2,557	652	1,258	1,875	3,745	5,342	85	925	3,553
3299	Nonmetallic mineral prod., nec.....	17	7	745	3,012	590	1,230	2,056	5,388	9,034	327	(D)	(D)
33	Primary metal industries	2,132	1,252	454,065	2,136,134	383,537	741,034	1,678,048	3,872,786	( <sup>2</sup> )	395,673	477,781	2,414,950
331	Blast furnaces and steel mills.....	110	109	206,475	985,635	177,483	333,974	795,522	2,012,624	( <sup>2</sup> )	273,195	208,607	1,091,224
332	Iron and steel foundries..	625	482	108,032	478,456	92,959	178,370	381,917	704,888	( <sup>2</sup> )	45,976	138,613	591,536
3321	Gray-iron foundries.....	495	368	67,250	301,054	58,736	114,212	246,152	444,482	741,676	29,979	89,413	378,201
3322	Malleable-iron foundries....	44	44	17,645	73,937	15,285	29,008	59,913	105,192	168,847	9,304	21,262	87,637
3323	Steel foundries.....	82	70	23,137	103,465	18,938	35,149	75,852	155,214	225,850	6,693	27,938	125,698
3341	Secondary nonferrous metals.....	110	53	7,132	33,594	5,562	11,432	22,129	67,732	306,781	5,717	7,231	47,781
3361	Nonferrous foundries.....	724	269	39,137	182,730	32,338	65,551	139,080	262,723	488,794	12,285	36,102	(D)
339	Primary metal industries, nec.....	462	255	65,902	327,969	53,584	107,695	245,313	565,230	( <sup>2</sup> )	37,155	61,130	381,821
3399	Primary metal industries, nec.....	247	88	10,456	50,204	8,177	16,751	34,936	93,956	245,985	6,665	10,810	(D)
34	Fabricated metal products.....	7,016	2,640	407,205	1,852,995	327,917	663,734	1,340,183	3,145,844	( <sup>2</sup> )	201,143	407,820	2,164,248
3411	Tin cans and other tinware	59	55	18,971	84,285	16,529	33,291	69,538	163,586	434,404	10,501	15,525	75,544
342	Cutlery, tools, & hardware	578	250	58,938	266,946	48,545	98,539	202,880	442,274	( <sup>2</sup> )	38,876	56,610	272,024
3421	Cutlery.....	31	9	818	2,898	675	1,300	2,144	5,086	7,196	338	1,233	5,765
3422	Edge tools.....	56	13	1,303	5,643	1,035	2,053	3,799	9,855	14,678	490	2,073	(D)
3423	Hand tools, nec.....	171	75	9,224	38,783	7,425	14,587	27,775	65,963	108,049	4,186	13,077	69,849
3424	Files.....	11	2	1,168	4,649	1,030	1,890	3,937	7,202	9,695	242	(D)	(D)
3425	Hand saws and saw blades....	34	12	1,485	6,372	1,095	2,122	4,209	10,679	17,061	378	(D)	(D)
3429	Hardware, nec.....	275	139	44,938	208,599	37,283	76,585	161,014	343,486	612,493	33,239	36,207	170,436
343	Heating and plumbing equipment.....	375	202	43,943	197,695	33,365	66,402	132,740	364,841	( <sup>2</sup> )	14,776	66,968	381,654
3431	Plumbing fixtures & fittings	106	49	12,258	56,404	9,828	19,817	40,330	103,196	187,423	4,654	(D)	(D)
3439	Heating and cooking equipment, nec.....	269	153	31,684	141,291	23,536	46,585	92,409	261,645	513,333	10,122	55,167	317,863
344	Structural metal products.	1,718	623	82,482	390,799	61,336	124,863	260,117	688,621	( <sup>2</sup> )	29,631	65,483	386,347
3441	Structural & ornamental work	654	229	29,448	141,829	21,891	45,440	92,271	241,794	466,982	11,171	21,147	128,180
3442	Metal doors, sash, and trim.	307	106	16,891	76,416	12,566	25,218	51,701	146,692	273,227	5,724	12,221	73,166
3443	Boiler shop products.....	260	129	20,178	96,989	14,493	29,119	63,388	167,302	314,542	6,781	19,849	115,077
3444	Sheet-metal work.....	497	159	15,963	75,564	12,384	25,085	52,755	132,831	276,556	5,953	12,266	69,924
346	Metal stamping and coating	2,137	748	93,750	417,079	78,880	158,839	311,831	665,799	( <sup>2</sup> )	29,222	93,325	460,506
3461	Vitreous-enameled products.	13	10	2,869	11,075	2,316	4,160	8,365	15,316	27,781	300	5,821	20,749
3463	Metal stampings.....	1,036	470	70,100	323,195	58,553	118,510	239,992	528,216	997,983	21,232	67,857	348,477
3465	Enameling and lacquering....	128	41	2,710	9,765	2,378	4,410	7,457	15,300	23,944	724	2,373	10,299
3466	Galvanizing.....	41	12	807	3,498	695	1,428	2,593	6,235	10,659	500	983	5,269
3467	Engraving on metal.....	62	15	1,345	5,470	1,116	2,239	3,884	7,888	10,416	464	1,345	6,265
3468	Plating and polishing.....	857	200	15,916	64,075	13,819	28,090	49,538	92,842	140,946	5,999	14,946	69,447
3471	Lighting fixtures.....	272	109	20,227	90,763	16,183	33,061	65,879	148,943	284,232	9,398	24,641	118,838
348	Fabricated wire products..	411	197	24,917	110,289	20,964	43,011	83,331	170,909	( <sup>2</sup> )	6,250	27,687	127,336
3481	Nails and spikes.....	28	15	1,101	4,873	926	1,942	3,238	8,825	15,147	381	(D)	(D)
3489	Wirework, nec.....	383	182	23,815	105,416	20,038	41,068	80,092	162,084	286,651	5,869	26,990	(D)
349	Metal products, nec.....	1,466	459	63,974	295,136	52,112	105,724	213,864	500,869	( <sup>2</sup> )	62,487	57,581	341,999
3494	Bolts, nuts, washers, and rivets.....	220	130	27,483	131,150	22,106	44,976	94,082	220,348	385,369	13,995	24,368	159,169
3495	Screw machine products.....	872	215	18,679	85,045	15,823	32,525	62,830	140,645	231,342	6,449	17,800	93,663
3499	Fabricated metal products, nec.....	283	63	6,964	27,734	5,424	10,383	18,974	53,338	95,988	3,899	2,776	(D)

See footnotes at end of table.

MANUFACTURES—AREA STATISTICS  
East North Central

Table 2.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Code	Industry group and industry	1954								1947			
		Establishments, number		All employees		Production workers			Value added by manu- facture (\$1,000)	Value of ship- ments (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
35	Machinery, except elec- trical.....	9,419	3,113	728,526	3,514,222	559,099	1,133,632	2,503,024	6,046,137	(2)	341,275	764,931	4,010,107
351	Engines and turbines.....	66	46	41,488	195,431	31,254	61,190	136,257	336,023	(2)	19,624	52,326	236,041
352	Tractors & farm machinery.	386	195	90,076	397,746	68,639	132,991	283,075	697,176	(2)	53,798	112,120	503,069
3521	Tractors.....	66	44	49,041	219,222	37,562	73,026	158,069	411,087	950,552	39,835	58,041	266,696
3522	Farm machinery (except trac- tors).....	320	151	41,035	178,524	31,077	59,965	125,006	286,089	590,319	13,962	54,079	236,373
353	Construction and mining machinery.....	237	155	48,639	226,130	35,774	70,861	149,214	379,625	(2)	15,073	50,730	284,633
3531	Construction & mining mach..	216	143	46,384	215,530	34,072	67,394	141,713	364,090	717,386	14,541	48,436	275,387
3532	Oil-field mach. and tools...	21	12	2,255	10,600	1,702	3,466	7,500	15,534	28,767	531	2,294	9,246
354	Metalworking machinery....	3,270	1,018	149,415	862,476	117,588	258,505	630,888	1,436,275	(2)	95,264	125,671	698,762
3541	Machine tools.....	326	153	43,736	250,533	33,160	73,296	172,965	463,389	697,269	20,575	37,502	199,639
3542	Metalworking machinery.....	225	113	31,194	160,286	23,203	49,731	112,164	272,823	470,850	11,804	26,540	163,390
3544	Special dies and tools.....	2,171	568	49,022	318,721	41,793	95,468	253,789	485,501	658,792	53,020	54,698	314,632
3545	Metalworking mach. attach- ments.....	548	184	25,462	132,935	19,430	40,010	91,968	214,561	289,986	9,864		
355	Special-industry mach., nec.....	728	304	47,756	237,705	34,982	72,642	155,516	397,786	(2)	15,229	59,415	340,068
3551	Food-products machinery.....	209	103	16,090	76,862	11,622	24,484	50,762	130,525	205,642	3,200	14,465	76,463
3552	Textile machinery.....	21	4	1,079	5,451	671	1,543	3,193	8,632	11,675	504	(D)	(E)
3553	Woodworking machinery.....	59	30	3,838	17,151	2,871	5,964	11,321	33,100	54,113	1,641	8,030	48,521
3554	Paper-industries machinery..	34	19	4,460	21,992	3,674	7,090	16,448	34,644	66,392	1,153	(D)	(D)
3555	Printing-trades machinery...	110	38	8,403	45,282	6,167	12,740	29,936	73,864	106,591	3,292	8,779	53,183
3559	Special-industry mach., nec.	295	110	13,884	70,965	9,975	20,819	43,854	117,018	193,021	5,437	21,656	131,009
356	General industrial machin- ery.....	970	499	101,632	495,621	72,072	146,242	312,750	888,379	(2)	33,243	105,493	593,251
3561	Pumps and compressors.....	167	83	23,196	110,748	15,328	30,759	65,828	193,321	336,706	6,991	21,810	114,073
3563	Conveyors.....	162	89	19,163	100,789	13,352	28,025	60,429	180,072	288,126	6,534	16,528	98,199
3564	Blowers and fans.....	64	45	9,434	42,877	6,995	14,059	28,491	81,814	131,640	3,409	5,862	36,098
3565	Industrial trucks & tractors	98	43	7,850	37,090	5,564	11,187	23,515	61,972	132,604	4,706	7,342	50,003
3566	Power-transmission equipment	215	129	29,046	141,225	22,743	45,735	100,846	248,268	373,645	8,853	33,691	183,481
3567	Industrial furnaces & ovens.	69	29	3,605	19,412	1,913	4,028	8,294	42,785	82,885	652	(D)	(D)
3569	General industrial mach., nec.....	141	57	6,731	31,079	4,567	9,310	18,923	57,872	100,839	1,737	12,724	69,082
357	Office and store machines.	136	77	37,320	173,959	31,386	60,807	137,338	301,297	(2)	17,374	39,378	226,718
358	Service and household ma- chines.....	383	200	101,350	459,425	79,167	154,683	327,786	790,781	(2)	48,541	125,189	647,403
3582	Laundry & dry-cleaning mach.	41	22	2,829	13,225	1,892	3,839	7,685	21,698	35,350	409	3,278	(D)
3584	Vacuum cleaners.....	26	14	6,426	28,973	4,854	9,646	19,702	62,647	108,092	1,608	(D)	(D)
3585	Refrigeration machinery.....	169	99	68,510	309,054	55,013	107,511	229,737	486,668	(2)	34,657	76,242	362,300
3586	Measuring & dispensing pumps	14	7	4,326	19,980	3,143	6,191	12,240	35,013	62,632	(D)	7,546	43,374
359	Miscellaneous mach. parts.	3,243	627	110,846	506,925	88,232	175,707	370,197	818,791	(2)	43,126	94,609	480,162
3594	Valves and fittings, except plumbing.....	178	108	35,048	163,725	27,536	54,043	117,636	257,693	441,791	10,196	39,852	201,249
3594	Industrial patterns & molds.	821	129	11,617	60,362	9,899	20,536	48,010	93,181	118,006	4,102	(D)	(D)
3599	Machine shops.....	2,143	324	39,802	176,534	31,258	63,204	124,625	295,679	449,940	16,110	25,954	126,499
36	Electrical machinery....	1,668	902	351,336	1,481,974	271,902	531,508	1,021,827	2,719,985	(2)	124,115	328,189	1,640,355
361	Elec. industrial apparatus	642	376	122,523	544,173	90,598	178,640	359,137	954,831	(2)	43,787	122,480	602,032
3611	Wiring devices and supplies.	98	50	8,254	35,669	6,432	12,470	24,139	71,718	125,538	3,060	8,578	56,605
3613	Elec. measuring instruments.	57	26	7,762	32,486	5,824	11,269	20,450	56,421	81,103	1,918	6,646	29,740
3614	Motors and generators.....	132	100	53,466	231,539	39,700	78,479	159,219	386,507	637,667	16,597	60,148	261,012
3616	Electrical control apparatus	146	85	30,475	140,733	22,105	43,358	90,155	256,667	380,985	14,696	25,533	140,687
3617	Electrical welding apparatus	63	35	5,685	34,267	3,879	8,181	20,435	59,714	122,773	1,611	5,343	45,531
3621	Electrical appliances.....	129	58	26,751	116,710	21,743	42,105	86,750	231,879	461,660	11,128	21,289	123,592
3641	Engine elec. equipment....	66	44	31,707	143,536	26,112	52,243	109,362	253,641	443,267	14,004	34,402	158,523
366	Communication equipment...	590	326	147,308	587,102	114,946	223,191	402,492	1,083,641	(2)	47,239	122,838	602,546
3661	Radios and related products.	496	278	96,434	362,730	78,103	151,686	256,519	703,835	(2)	23,515	75,946	(D)
3669	Communication equipment, nec.....	38	8	1,265	5,369	917	1,814	3,186	8,615	13,655	111	1,855	9,201
369	Electrical products, nec..	198	74	15,251	62,689	11,550	22,354	41,472	111,766	(2)	4,910	(D)	(D)
3691	Storage batteries.....	56	19	4,499	19,931	3,481	6,917	14,209	41,964	111,818	2,164	4,354	32,494
3692	Primary batteries.....	18	14	5,052	18,059	4,033	7,571	12,761	28,070	55,291	800	(D)	(D)
3693	X-ray and therapeutic appa- ratus.....	48	14	3,480	16,642	2,229	4,486	9,104	25,209	37,815	984	(D)	(D)
3699	Electrical products, nec....	76	27	2,219	8,057	1,805	3,378	5,396	16,521	33,142	962	(D)	(D)
37	Transportation equipment	1,507	871	709,928	3,488,010	574,751	1,173,026	2,659,134	6,122,192	(2)	641,511	628,064	3,272,893
371	Motor vehicles & equipment	939	573	521,310	2,574,388	439,212	898,860	2,058,184	4,513,185	(2)	597,883	546,040	2,883,231
3715	Truck trailers.....	31	23	6,665	29,793	5,474	10,821	23,059	45,397	129,703	1,347	6,322	31,409

See footnotes at end of table.



GEOGRAPHIC DIVISIONS  
East North Central

Table 2.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Code	Industry group and industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manu- facture (\$1,000)	Value of ship- ments (\$1,000)	Capital expendi- tures, new (\$1,000)	1947 employees, number	Value added by manu- facture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
37	Transportation equipment—Continued												
372	Aircraft and parts.....	320	191	150,271	743,422	104,227	213,139	471,561	1,295,444	( <sup>2</sup> )	32,075	(D)	(D)
3723	Aircraft propellers.....	7	6	4,776	24,698	3,190	6,632	15,552	37,095	66,910	792	(D)	(D)
3729	Aircraft equipment, nec.....	202	96	61,029	292,363	44,439	89,521	196,689	478,275	860,165	8,879	(D)	(D)
373	Ships and boats.....	154	57	10,528	42,528	9,313	18,522	35,391	65,683	( <sup>2</sup> )	2,501	5,700	20,617
374	Railroad equipment.....	44	32	22,905	107,389	17,837	34,805	78,152	216,716	( <sup>2</sup> )	(D)	37,914	181,425
38	Instruments and related products.....	688	254	60,938	256,694	44,096	89,934	166,748	457,366	( <sup>2</sup> )	12,484	(D)	(D)
3811	Scientific instruments....	68	29	8,403	40,437	5,809	12,760	26,417	71,671	132,840	1,216	2,823	11,972
3821	Mech. measuring instruments.....	155	61	19,508	85,009	13,359	28,240	52,774	150,877	237,014	4,967	17,323	(D)
384	Medical equipment and supplies.....	244	72	10,842	41,600	7,768	14,668	25,371	74,954	( <sup>2</sup> )	2,081	11,610	57,267
3841	Surgical and medical instruments.....	39	8	725	2,728	547	1,067	1,786	5,656	7,764	128	724	3,391
3842	Surgical appliances and supplies.....	161	47	8,502	32,250	6,070	11,379	19,707	59,079	115,675	1,724	8,737	44,857
3843	Dental equipment & supplies.	44	17	1,613	6,621	1,150	2,221	3,877	10,218	15,548	228	2,149	9,019
3851	Ophthalmic goods.....	32	10	782	2,823	632	1,195	2,029	4,764	7,111	122	2,026	7,573
3861	Photographic equipment....	127	52	10,603	44,192	7,788	15,871	30,136	86,838	151,777	2,243	8,660	44,935
39	Miscellaneous manufactures.....	3,145	1,042	154,036	(D)	121,064	(D)	(D)	(D)	(D)	(D)	(D)	(D)
391	Jewelry and silverware....	164	31	3,636	14,740	2,744	5,430	9,829	24,347	( <sup>2</sup> )	(D)	(D)	(D)
393	Musical instruments and parts.....	110	59	9,367	38,742	7,979	16,221	30,516	61,927	( <sup>2</sup> )	1,058	9,753	40,081
3931	Pianos.....	13	12	3,739	15,935	3,196	6,349	12,163	21,676	30,388	429	4,394	17,318
3939	Musical instruments, nec....	70	32	3,434	14,056	2,776	5,511	10,561	19,299	28,359	408	(D)	(D)
394	Toys and sporting goods...	495	168	21,891	75,801	18,574	35,102	55,472	133,897	( <sup>2</sup> )	5,191	23,834	100,668
3941	Games and toys, nec.....	176	73	7,363	24,152	6,332	11,878	16,856	45,650	78,898	1,741	6,728	26,234
3942	Dolls.....	16	3	148	348	140	272	296	905	1,505	21	(D)	(D)
3943	Children's vehicles.....	12	9	3,190	13,019	2,951	5,733	11,384	19,533	42,713	931	4,150	(D)
3949	Sporting and athletic goods.	291	83	11,188	38,282	9,149	17,217	26,934	67,808	127,302	2,497	11,374	46,046
395	Office supplies.....	175	48	6,199	26,341	4,120	8,306	14,526	47,203	( <sup>2</sup> )	1,754	8,371	57,317
3951	Pens and mechanical pencils.	18	8	2,768	12,616	1,665	3,267	6,202	23,659	36,164	1,189	(D)	(D)
3953	Hand stamps and stencils....	110	23	1,538	6,636	1,073	2,134	4,021	9,813	13,915	280	1,155	5,451
3954	Artists' materials.....	23	6	655	2,121	527	1,144	1,457	3,965	7,710	(D)	(D)	(D)
396	Costume jewelry & notions.	128	34	2,919	8,722	2,536	4,522	6,127	14,158	( <sup>2</sup> )	350	5,025	21,496
3963	Buttons.....	24	5	543	1,982	453	913	1,423	2,964	4,258	63	903	2,874
3971	Plastics products, nec....	671	254	29,862	121,149	24,605	49,795	86,654	203,450	428,023	16,460	18,201	75,855
3981	Brooms and brushes.....	143	42	4,056	14,506	3,148	6,164	8,995	23,881	45,365	1,127	4,161	19,840
3983	Matches.....	7	7	2,825	9,955	2,291	4,513	7,329	15,839	28,259	306	3,372	15,560
3985	Fireworks and pyrotechnics	19	7	499	1,321	450	857	1,047	2,141	3,824	102	(D)	(D)
3988	Morticians' goods.....	156	72	5,974	22,949	4,574	9,014	14,862	36,443	62,404	1,065	9,378	37,971
3991	Beauty & barber-shop equip.	21	7	765	3,474	616	1,311	2,273	5,834	9,428	121	1,864	7,833
3993	Signs and advertising displays.....	618	124	10,563	45,035	8,359	16,544	30,110	70,618	120,882	2,334	9,591	43,575
3999	Miscellaneous products, nec.....	164	41	4,172	14,778	3,148	5,869	9,052	26,216	53,855	2,949	4,265	19,534
19--	Ordnance and accessories....	151	118	47,520	211,560	35,035	70,537	144,953	394,540	( <sup>2</sup> )	5,065	(D)	(D)

See footnotes on next page.

## MANUFACTURES—AREA STATISTICS

## East North Central

Note: Detailed figures may not add to total because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industries (4-digit) and industry groups (3-digit) are not shown. Industries and industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "all industries" line.

<sup>2</sup>The total value of shipments figures for industry groups and a few individual industries have not been published due to the extensive and unmeasurable duplication arising from shipments from one establishment to another in the same industry classification. (See Introduction.)

<sup>3</sup>The 1954 and 1947 "all industries" totals are not strictly comparable because of differences in scope between the two years in major groups 20 and 24 (see footnote 4).

<sup>4</sup>Comparable data for major groups 20 and 24 are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude establishments in S.I.C. Industry 2411, Logging Camps and Contractors, which are included in the scope of the 1954 Census; the 1947 Census also excludes plants processing and distributing fluid milk which in 1954 were classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
20	Food and kindred products except subgroup 202, Dairy products.....	317,648	2,821,551	321,150	2,161,720
24	Lumber and wood products except Industry 2411, Logging camps and contractors.....	62,184	327,681	66,485	273,872

<sup>5</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." Establishments which are Government-owned and operated are not included.



## GEOGRAPHIC DIVISIONS

10-31

## East North Central

Table 3.—DISTRIBUTION OF OPERATING MANUFACTURING ESTABLISHMENTS BY EMPLOYMENT SIZE GROUPS AND MAJOR INDUSTRY GROUPS, FOR THE DIVISION: 1954

20 Food and kindred products	26 Pulp paper and products	32 Stone, clay, and glass products	38 Instruments and related products
21 Tobacco manufactures	27 Printing and publishing	33 Primary metal industries	39 Miscellaneous manufactures (Includes Group 19)
22 Textile mill products	28 Chemicals and products	34 Fabricated metal products	Ordnance and accessories)
23 Apparel and related products	29 Petroleum and coal products	35 Machinery, except electrical	
24 Lumber and wood products	30 Rubber products	36 Electrical machinery	
25 Furniture and fixtures	31 Leather and leather goods products	37 Transportation equipment	

State, county, and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
East North Central Division, total	58,946	9,422	84	370	2,406	4,303	1,926	1,159	7,329	2,351	321	412	552	2,736	2,132	7,016	9,419	1,668	1,507	688	3,145
3 to 4 employees.....	20,861	3,250	49	73	750	2,557	633	145	3,359	803	57	82	142	1,075	345	2,137	3,254	378	326	231	1,215
5 to 9 employees.....	9,300	1,652	7	43	353	648	278	100	1,377	376	40	39	67	453	257	1,138	1,555	216	152	96	453
10 to 19 employees.....	8,279	1,461	8	50	349	443	247	131	990	339	53	58	60	342	278	1,101	1,497	172	158	107	435
20 to 49 employees.....	8,710	1,503	4	55	417	371	329	201	872	337	47	74	77	367	405	1,229	1,388	242	225	103	464
50 to 99 employees.....	4,771	788	5	45	272	155	199	183	353	224	33	52	61	202	258	609	673	191	156	48	264
100 to 249 employees.....	3,869	539	7	63	180	103	164	239	252	144	45	46	70	180	268	461	506	203	164	48	187
250 to 499 employees.....	1,652	139	3	31	69	19	45	115	68	72	27	26	55	70	158	188	251	109	100	28	79
500 to 999 employees.....	813	50	1	7	11	5	23	35	29	30	12	15	15	22	81	108	158	80	84	17	30
1,000 to 2,499 employees.....	482	30	...	3	4	2	6	9	26	16	5	12	4	22	50	39	104	57	75	6	12
2,500 employees and over.....	209	10	...	...	1	...	2	1	3	10	2	8	1	3	32	6	33	20	67	4	6

## MANUFACTURES--AREA STATISTICS

## West North Central

Table 1A.--MANUFACTURING EMPLOYMENT AT OPERATING ESTABLISHMENTS AND CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARIES FOR THE DIVISION:  
1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Year <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	(Number)	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
West North Central Division:						
1954.....	963,778	3,863,288	939,357	3,731,449	24,421	131,839
1953 <sup>2</sup> .....	999,214	3,903,432	978,888	3,808,732	20,326	94,700
1952 <sup>2</sup> .....	962,179	3,557,219	946,917	3,496,043	<sup>3</sup> 15,262	<sup>3</sup> 61,176
1951 <sup>2</sup> .....	896,819	3,093,731	881,557	3,032,555	15,262	61,176
1950 <sup>2</sup> .....	828,111	2,585,845	811,926	2,528,365	16,185	57,480
1949 <sup>2</sup> .....	791,751	2,342,420	778,568	2,297,964	13,183	44,456

Note: West North Division consists of: Minnesota, Iowa, Missouri, North Dakota, South Dakota, Nebraska and Kansas.

<sup>1</sup>Employment data for administrative offices and auxiliaries on a State basis are not available for the years prior to 1949. Similar data for standard metropolitan areas are available only for 1954.<sup>2</sup>The employment figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period. The employment figures for administrative and auxiliary units were compiled chiefly from Bureau of Old-Age and Survivors Insurance records and are not strictly comparable with the figures for these units that were collected by the Bureau of the Census for the year 1954.<sup>3</sup>The 1951 data are shown for 1952 since auxiliary and administrative unit data were not collected in 1952.

Table 1B.--GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS IN THE DIVISION: 1954 AND EARLIER YEARS

(For explanation of column captions see INTRODUCTION)

Division and year	Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)	Horse power of prime movers and electric motors <sup>1</sup> (1,000 hp)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
West North Central:									
1954 <sup>2</sup> .....	19,020	939,357	3,731,449	713,222	1,426,488	2,573,277	7,113,835	389,113	4,878
1953 <sup>3</sup> .....		978,888	3,808,732	770,470	1,558,465	2,764,322	7,050,337	358,591	
1952 <sup>3</sup> .....		946,917	3,496,043	739,486	1,520,663	2,502,059	6,404,371	319,684	
1951 <sup>3</sup> .....	(NA)	881,557	3,032,555	691,971	1,410,879	2,180,216	5,688,029	353,344	(NA)
1950 <sup>3</sup> .....		811,926	2,628,365	637,452	1,291,604	1,803,214	5,154,364		
1949 <sup>3</sup> .....		778,568	2,297,964	611,224	1,215,493	1,593,854	4,394,939	(NA)	
1947.....	17,389	786,147	2,069,657	635,455		1,507,209	4,115,706	340,462	
1939.....	14,066	490,651	642,705	376,156		420,581	1,348,167		2,284
1929.....	17,792	567,160	804,673	474,115	(NA)	589,162	1,869,991	(NA)	2,038
1919.....	26,255	603,866	734,649	492,054		536,304	1,387,774		
1909.....	27,171	437,777	274,298	374,337		204,793	562,044		(NA)
1899.....	20,732	296,657	146,336	266,051		117,209	325,404		

NA Not available.

<sup>1</sup>Driven by purchased electricity.<sup>2</sup>The 1954 figures include data for establishments engaged in the processing and distribution of fluid milk, Industry Group 202, Dairy Products. These establishments were not included in the figures for the Annual Survey years 1949-1953 or earlier Census years. In addition, the 1954 Census and Annual Survey years include data for Logging Camps and Contractors, Industry 2411, which were not included within the scope of the 1947 Census and earlier Censuses. See footnotes to Table 2 for comparable 1954 and 1947 totals. There were also a number of changes in the definition of manufacturing industries during earlier Census years that affect the comparability of the historical series. Among the more important of these were: figures for 1935 and later years exclude data for "railroad repair shops" and "manufactured gas" which were included in 1899-1933 figures; the minimum size of establishment included for 1954 and 1947 was one employee, for 1939-1921 manufacturing establishments reporting value of shipments of \$5,000 or more were within scope whereas for 1919 and earlier years the cut-off was \$500. (This change in procedure has not appreciably affected the comparability of the historical data except for the figures on number of establishments.)<sup>3</sup>The employment and payroll figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period.



## GEOGRAPHIC DIVISIONS

10-33

## West North Central

Table 2.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Code	Industry group and industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manu- facture (\$1,000)	Value of ship- ments (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
	All industries, total <sup>1</sup>	19,020	5,476	939,357	3,731,449	713,222	1,426,488	2,573,277	7,113,835	( <sup>2</sup> )	389,113	( <sup>3</sup> )	( <sup>3</sup> )
20	Food and kindred prod- ucts.....	4,852	1,431	216,710	853,750	154,680	324,683	567,519	1,668,361	( <sup>2</sup> )	100,749	( <sup>3</sup> )	( <sup>3</sup> )
201	Meat products.....	523	241	85,989	361,207	67,856	141,448	277,320	538,855	( <sup>2</sup> )	18,686	85,977	389,287
2011	Meat packing plants.....	268	127	75,481	333,237	58,644	123,044	254,941	487,116	( <sup>2</sup> )	15,957	72,996	335,551
2013	Prepared meats.....	88	30	2,937	10,696	2,355	4,765	7,906	19,681	( <sup>2</sup> )	1,065	(NA)	(NA)
2015	Poultry dressing plants.....	167	84	7,571	17,274	6,857	13,638	14,472	32,057	175,882	1,663	9,438	31,191
202	Dairy products.....	1,910	391	36,557	128,904	21,455	47,653	64,510	257,836	( <sup>2</sup> )	25,552	( <sup>3</sup> )	( <sup>3</sup> )
2021	Creamery butter.....	756	107	10,370	30,153	7,595	16,561	20,295	62,192	441,270	7,346	( <sup>3</sup> )	( <sup>3</sup> )
2022	Natural cheese.....	119	30	2,075	6,428	1,673	4,081	4,924	14,523	91,085	1,629	( <sup>3</sup> )	( <sup>3</sup> )
2023	Concentrated milk.....	64	29	1,644	5,794	1,441	3,416	4,791	20,908	80,505	1,298	( <sup>3</sup> )	( <sup>3</sup> )
2024	Ice cream and ices.....	187	48	3,354	12,096	2,013	4,045	5,852	27,899	66,349	2,085	( <sup>3</sup> )	( <sup>3</sup> )
2025	Special dairy products.....	15	6	445	1,428	332	648	959	2,465	22,968	(D)	( <sup>3</sup> )	( <sup>3</sup> )
2026	Fluid milk.....	149	11	1,183	3,755	678	1,483	1,849	7,081	21,009	(D)	( <sup>3</sup> )	( <sup>3</sup> )
2027	Fluid milk & other products.	620	160	17,485	69,248	7,720	17,416	25,838	122,766	371,475	9,739	( <sup>3</sup> )	( <sup>3</sup> )
203	Canned and frozen foods...	134	60	5,915	15,697	5,060	10,224	11,523	36,950	( <sup>2</sup> )	2,284	7,643	30,259
2033	Canned fruits and vegetables	71	46	4,120	10,654	3,566	7,120	8,076	25,680	72,790	1,280	5,692	21,633
204	Grain mill products.....	639	230	23,464	93,565	17,211	38,239	63,857	259,110	( <sup>2</sup> )	15,453	26,102	259,082
2041	Flour and meal.....	114	80	7,667	32,578	5,966	13,522	24,439	88,244	635,807	4,028	13,667	157,328
2042	Prepared animal feeds.....	493	136	12,548	47,317	8,663	19,570	29,708	122,062	506,976	10,392	10,061	76,118
2043	Cereal breakfast foods.....	15	9	2,811	12,084	2,212	4,581	8,765	40,904	110,829	717	2,275	24,477
2045	Flour mixes.....	17	5	436	1,585	369	564	944	7,898	19,389	314	99	1,159
205	Bakery products.....	619	205	25,738	97,042	15,222	30,263	47,934	172,814	( <sup>2</sup> )	8,585	26,070	122,197
2051	Bread and related products..	589	185	21,593	83,732	12,238	24,350	39,463	138,971	265,569	7,275	20,120	91,513
2052	Biscuit and crackers.....	30	20	4,144	13,310	2,984	5,912	8,471	33,842	63,137	1,309	5,950	30,684
206	Sugar.....	12	12	1,577	6,208	1,307	2,843	4,954	14,593	( <sup>2</sup> )	837	1,692	14,498
207	Candy & related products..	70	28	3,069	9,214	2,354	4,869	6,053	17,191	43,211	621	4,802	22,700
2071	Confectionery products.....	70	28	3,069	9,214	2,354	4,869	6,053	17,191	43,211	621	4,802	22,700
208	Beverages.....	518	140	18,415	84,743	11,925	24,350	53,789	220,350	( <sup>2</sup> )	18,769	18,145	161,775
2081	Bottled soft drinks.....	468	98	7,526	26,351	3,543	6,835	9,453	51,808	85,713	3,741	6,887	36,369
2082	Beer and ale.....	31	29	9,970	53,775	7,780	15,987	41,095	156,169	280,555	14,114	10,063	113,599
2083	Malt.....	12	8	480	2,476	396	822	1,991	7,573	43,473	708	428	8,909
209	Miscellaneous foods.....	427	128	15,983	57,167	12,286	24,793	37,575	150,659	( <sup>2</sup> )	9,958	20,036	119,275
2094	Corn wet milling.....	7	7	4,102	19,944	3,176	6,726	14,295	58,494	151,929	3,909	4,076	36,430
2095	Flavorings.....	43	5	541	2,506	378	702	1,248	12,850	27,590	963	602	9,257
2097	Manufactured ice.....	117	16	1,422	4,535	859	1,901	2,772	8,856	10,703	700	3,691	17,177
2098	Macaroni and spaghetti.....	15	10	878	3,080	573	1,121	1,482	6,997	16,738	275	(D)	(D)
2099	Food preparations, nec.....	235	86	8,712	25,570	7,041	13,804	16,561	57,172	329,905	3,473	10,254	45,538
21	Tobacco manufactures....	11	3	704	(D)	592	(D)	(D)	(D)	(D)	(D)	(D)	(D)
22	Textile mill products...	75	46	6,656	20,264	5,394	10,159	13,973	32,381	( <sup>2</sup> )	1,292	8,374	28,279
221	Woolen and worsted manu- facture.....	7	5	505	1,491	442	833	1,149	2,671	( <sup>2</sup> )	223	1,021	3,171
225	Knitting mills.....	22	18	2,780	8,704	2,053	3,779	5,531	9,686	( <sup>2</sup> )	320	3,852	12,395
2251	Full-fashioned hosiery mills	6	5	650	1,918	501	904	1,442	3,193	( <sup>2</sup> )	13	1,057	4,045
2252	Seamless hosiery mills.....	3	3	216	474	203	370	427	743	1,345	62	127	357
2253	Knit outerwear mills.....	9	6	432	1,194	351	696	864	1,973	5,110	(D)	(D)	(D)
2261	Finishing textiles except wool.....	7	3	271	675	220	324	477	874	1,304	75	(D)	(D)
228	Hats, except cloth and millinery.....	7	4	715	1,994	647	1,302	1,596	3,011	( <sup>2</sup> )	51	(D)	(D)
229	Miscellaneous textile goods.....	25	10	1,476	4,668	1,218	2,452	3,162	11,741	( <sup>2</sup> )	540	1,522	6,335
2293	Padding & upholstery filling	8	3	539	1,974	444	921	1,252	3,653	8,001	174	603	(D)
2294	Processed textile waste.....	8	4	426	1,056	370	774	828	1,796	5,321	159	402	1,419
2298	Cordage and twine.....	4	2	344	990	287	544	713	1,777	3,664	(D)	(D)	(D)
23	Apparel and related products.....	903	522	52,237	134,024	46,166	83,406	101,933	212,260	( <sup>2</sup> )	3,627	54,132	186,137
231	Men's and boys' suits and coats.....	36	28	3,622	10,987	3,267	5,913	8,676	17,739	36,615	118	3,563	15,990
2311	Men's & boys' suits & coats.	36	28	3,622	10,987	3,267	5,913	8,676	17,739	36,615	118	(D)	(D)
232	Men's & boys' furnishings.	197	151	17,995	41,039	16,363	29,317	32,792	60,531	( <sup>2</sup> )	749	19,284	52,384
2321	Men's dress shirts and nightwear.....	30	26	3,446	7,451	3,247	5,704	6,412	11,406	24,080	179	4,543	11,072
2322	Men's and boys' underwear...	4	4	453	946	435	756	870	2,966	5,049	(D)	(D)	(D)

See footnotes at end of table.

## MANUFACTURES—AREA STATISTICS

## West North Central

Table 2.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Code	Industry group and industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manu- facture (\$1,000)	Value of ship- ments (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
23	Apparel and related products—Continued												
232	Men's and boys' furnishings—Continued												
2323	Men's and boys' neckwear....	9	4	339	995	264	510	572	1,630	3,652	(D)	997	4,425
2325	Men's and boys' cloth hats..	37	25	1,779	4,370	1,674	3,219	3,731	6,141	10,941	48	1,290	3,695
2327	Separate trousers.....	37	27	3,391	6,984	3,185	5,940	5,811	10,752	22,621	97	3,144	9,092
2329	Men's & boys' clothing, nec.	76	63	8,236	19,642	7,222	12,658	14,811	26,896	66,770	355	8,540	23,226
233	Women's and misses' outerwear.....	228	157	15,442	42,206	13,683	24,665	31,993	72,738	(2)	570	14,945	56,803
2331	Blouses.....	10	6	325	708	284	470	575	1,214	2,080	4	(D)	(D)
2333	Dresses, unit price.....	71	49	4,749	12,248	4,249	7,478	9,637	20,843	35,142	117	5,767	22,092
2334	Dresses, dozen price.....	67	42	5,132	12,473	4,606	8,386	10,001	24,189	45,293	245	5,451	18,540
2337	Women's suits, coats, and skirts.....	60	49	4,363	14,773	3,745	6,740	10,106	23,611	48,032	170	(D)	(D)
2339	Women's outerwear, nec.....	20	11	870	2,003	797	1,589	1,672	2,879	7,910	32	(D)	(D)
234	Women's undergarments.....	29	24	2,508	5,749	2,199	3,715	4,221	9,893	(2)	122	2,679	11,029
2341	Women's and children's underwear.....	24	21	2,135	5,088	1,836	3,121	3,616	8,682	21,761	100	2,276	(D)
2342	Corsets and allied garments.	5	3	373	661	362	593	605	1,210	1,996	22	403	(D)
2351	Millinery.....	19	8	345	901	288	521	692	1,282	2,099	(D)	528	2,268
236	Children's outerwear.....	46	28	2,617	6,280	2,305	4,313	4,818	9,612	(2)	135	1,406	4,978
2361	Children's dresses.....	12	4	191	430	176	321	345	628	1,024	14	260	555
2363	Children's coats.....	6	5	501	1,382	414	729	939	2,099	4,079	12	371	1,676
2369	Children's outerwear, nec....	28	19	1,925	4,468	1,714	3,263	3,534	6,884	15,417	109	775	2,747
2371	Fur goods.....	17	1	124	425	87	156	292	515	1,483	(D)	326	1,509
238	Miscellaneous apparel.....	47	30	2,262	5,005	1,990	3,423	3,867	7,285	(2)	121	4,274	14,919
2382	Fabric work gloves.....	16	14	1,177	2,302	1,087	1,874	1,914	3,215	7,409	33	1,794	5,748
2384	Robes and dressing gowns....	6	4	225	603	191	331	423	849	1,787	18	529	1,654
2386	Leather and sheep-lined clothing.....	10	8	577	1,444	476	797	1,051	2,313	4,895	40	701	2,869
239	Fabricated textiles, nec..	284	95	7,319	21,429	5,980	11,380	14,578	32,661	(2)	1,801	7,127	26,257
2391	Curtains and draperies.....	22	8	444	1,168	371	678	731	1,789	5,047	15	352	1,435
2392	Housefurnishings, nec.....	35	15	823	2,083	682	1,268	1,353	3,366	7,863	142	454	1,741
2393	Textile bags.....	23	19	2,240	7,016	1,800	3,488	4,869	10,127	48,949	1,420	2,967	10,693
2394	Canvas products.....	112	24	1,526	4,552	1,183	2,311	2,864	6,953	13,856	119	1,127	4,488
2396	Trimnings and art goods.....	19	9	678	2,217	597	1,086	1,701	3,329	11,463	41	459	2,040
2399	Textile products, nec.....	49	15	1,275	3,675	1,028	1,998	2,453	6,048	12,277	52	1,415	4,946
24	Lumber and wood products	1,814	233	23,927	75,354	20,241	38,990	57,191	117,825	(2)	4,711	(3)	(3)
2411	Logging camps and contractors.....	443	20	2,446	5,039	2,277	3,387	4,374	7,777	13,427	1,126	(3)	(3)
242	Lumber and basic products.	799	39	5,116	12,363	4,658	8,781	10,355	20,982	(2)	1,039	5,296	15,285
2421	Sawmills and planing mills..	759	31	4,554	11,158	4,131	7,799	9,319	19,027	37,904	968	4,445	12,973
2422	Veneer mills.....	5	2	126	331	118	288	285	616	934	28	(D)	(D)
243	Millwork and related products.....	323	97	11,039	42,347	8,590	17,329	30,003	62,808	(2)	1,767	9,644	40,465
2431	Millwork plants.....	292	78	9,847	37,860	7,571	15,268	26,827	53,516	113,640	1,514	8,740	36,823
244	Wooden containers.....	101	35	2,397	6,677	2,171	4,412	5,424	11,072	(2)	405	2,831	9,340
2444	Wooden boxes.....	76	33	2,125	5,976	1,923	3,956	4,823	9,918	22,839	312	1,855	6,215
2445	Cooperage.....	18	2	250	648	229	420	571	1,068	3,204	79	879	2,950
249	Miscellaneous wood products.....	148	41	2,927	8,926	2,542	5,081	7,033	15,185	(2)	371	3,283	13,427
2491	Wood preserving.....	19	15	881	3,000	753	1,465	2,399	5,565	14,761	119	1,111	6,449
2492	Lasts and related products..	10	4	284	1,153	247	498	900	1,695	2,293	(D)	241	1,089
2499	Wood products, nec.....	107	21	1,668	4,525	1,456	2,933	3,530	7,532	15,667	221	1,849	5,639
25	Furniture and fixtures..	497	146	13,844	51,255	11,397	22,209	36,222	82,423	(2)	2,112	14,400	56,373
251	Household furniture.....	259	81	7,637	27,364	6,381	12,381	19,810	43,957	(2)	942	8,802	33,482
2511	Wood furniture, not upholstd.	99	26	1,966	6,296	1,651	3,240	4,824	8,716	16,940	399	3,427	10,355
2512	Upholstd. household furniture	77	33	2,527	9,211	2,166	4,139	6,788	14,468	30,710	198	2,359	9,405
2514	Metal household furniture...	16	6	1,306	4,457	1,123	2,223	3,449	7,096	16,071	110	(D)	(D)
252	Office furniture.....	20	11	1,002	3,384	817	1,628	2,418	6,981	(2)	224	572	2,744
2521	Wood office furniture.....	4	1	202	753	173	341	544	1,140	2,390	(D)	(D)	(D)
2522	Metal office furniture.....	16	10	800	2,631	643	1,287	1,874	5,840	9,809	(D)	(D)	(D)
253	Public and professional furniture.....	31	9	1,250	5,102	956	1,971	3,541	8,417	(2)	301	487	1,791
2531	Public-building furniture...	23	6	708	2,839	555	1,174	2,095	5,050	9,374	(D)	122	292
2532	Professional furniture.....	8	3	542	2,263	401	796	1,446	3,367	5,453	(D)	365	1,499

See footnotes at end of table.



GEOGRAPHIC DIVISIONS  
West North Central

Table 2.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Code	Industry group and industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manu- facture (\$1,000)	Value of ship- ments (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
25	Furniture and fixtures--Continued												
2541	Partitions and fixtures....	105	25	2,337	9,298	1,867	3,549	6,273	14,304	23,592	327	2,416	10,067
256	Screens, shades, & blinds.	58	9	708	2,558	636	1,252	1,619	4,509	(2)	137	1,373	4,983
2561	Window and door screens....	8	4	180	982	245	475	663	1,767	4,130	61	207	1,096
2563	Venetian blinds.....	44	5	499	1,517	367	733	909	2,594	5,541	71	1,144	(D)
259	Furniture & fixtures, nec.	24	11	909	3,548	738	1,425	2,559	4,254	(2)	178	750	3,306
26	Pulp, paper and products	255	172	30,866	129,711	23,314	48,808	86,389	285,342	(2)	20,786	25,815	166,555
261	Pulp, paper and board.....	31	30	7,277	34,226	6,175	14,373	27,308	78,863	(2)	6,439	6,350	52,977
2611	Pulp mills.....	10	10	1,413	6,565	1,193	2,783	5,208	15,726	38,793	1,519	1,354	11,561
2612	Paper and paper board mills.	12	12	3,665	17,485	2,986	6,870	13,468	39,204	91,977	3,399	3,528	27,870
2613	Building paper & board mills	9	8	2,199	10,176	1,996	4,720	8,632	23,932	51,118	1,521	1,468	13,546
2641	Paper coating and glazing.	9	6	6,192	29,857	2,940	5,458	12,901	85,742	125,180	3,203	5,451	45,722
2651	Envelopes.....	26	18	2,008	8,420	1,587	3,335	5,359	13,692	24,421	(D)	1,649	9,284
2661	Paper bags.....	20	12	2,266	8,079	1,797	3,606	5,487	14,312	34,864	1,193	787	2,732
267	Paperboard containers.....	102	76	8,689	34,276	7,121	14,621	24,382	57,999	(2)	6,313	8,211	41,100
2671	Paperboard boxes.....	94	70	7,579	30,064	6,186	12,675	21,134	51,422	131,888	6,057	7,480	38,629
2674	Fiber cans, tubes, drums, etc.....	8	6	1,110	4,212	935	1,946	3,248	6,577	13,683	255	731	2,471
269	Pulp, paper and products, nec.....	67	30	4,431	14,852	3,691	7,412	10,950	34,771	(2)	(D)	3,367	14,740
2699	Paper & board products, nec.	48	21	3,757	12,686	3,112	6,244	9,387	31,261	66,824	3,018	2,714	12,625
27	Printing and publishing.	3,570	528	70,213	288,407	43,673	82,390	166,352	490,014	(2)	22,946	60,618	335,455
2711	Newspapers.....	1,678	188	28,167	110,987	16,123	29,951	62,325	200,380	287,349	6,712	24,535	138,510
2721	Periodicals.....	165	31	5,161	21,324	2,087	4,040	8,675	48,970	73,192	1,873	4,848	32,386
273	Books.....	98	23	3,701	14,677	2,379	4,717	7,760	24,586	(2)	519	2,682	15,039
2731	Books; publishing & printing	61	18	3,025	11,747	1,867	3,698	5,848	20,355	29,625	332	1,999	12,376
2732	Book printing.....	37	5	676	2,930	512	1,019	1,912	4,230	6,585	187	683	2,663
2751	Commercial printing.....	971	146	17,758	77,034	11,932	22,910	45,683	113,150	173,040	4,450	14,722	65,359
2761	Lithographing.....	271	70	6,894	32,071	5,343	10,370	21,852	46,774	78,005	3,620	7,544	49,368
278	Bookbinding & related inds..	97	17	1,422	4,818	1,195	2,167	3,513	7,920	(2)	332	1,778	7,369
2781	Bookbinding.....	41	7	511	1,717	446	768	1,335	2,675	3,489	152	(D)	(D)
2782	Blankbooks and paper ruling.	29	4	492	1,760	410	800	1,231	2,598	4,401	60	(D)	(D)
2783	Loose-leaf binders and devices.....	18	5	327	1,067	256	443	698	2,160	3,507	78	(D)	(D)
279	Printing trade services...	190	31	2,368	12,068	1,776	3,410	8,667	16,671	(D)	719	2,208	12,703
2791	Typesetting.....	76	10	833	4,253	663	1,273	3,267	6,039	6,988	321	605	3,593
2792	Engraving and plate printing	28	3	297	1,002	235	479	707	1,402	1,918	20	255	877
2793	Photoengraving.....	68	10	830	4,547	569	1,081	3,067	6,217	7,270	271	919	5,669
2794	Electrotyping & stereotyping	18	8	403	2,262	301	570	1,619	3,005	3,636	100	429	2,564
28	Chemicals and products..	881	290	40,419	175,480	27,753	54,796	107,406	530,303	(2)	55,308	32,515	328,324
281	Inorganic chemicals.....	26	16	2,390	10,679	1,639	3,412	6,998	34,212	(2)	13,807	1,670	14,720
282	Organic chemicals.....	18	12	8,924	41,640	6,998	13,846	30,886	82,889	(2)	21,536	4,071	29,492
2826	Explosives.....	5	4	4,914	22,554	4,120	8,039	18,210	28,869	51,450	1,864	(D)	(D)
283	Drugs and medicines.....	138	49	7,279	31,543	4,305	8,734	15,582	78,024	(2)	2,432	7,154	55,888
2831	Biological products.....	24	15	957	3,609	746	1,537	2,359	9,299	18,855	578	(D)	(D)
2833	Medicinal chemicals.....	5	2	2,396	12,533	1,378	2,869	6,686	16,068	31,944	870	(D)	(D)
2834	Pharmaceutical preparations.	109	32	3,925	15,400	2,181	4,327	6,536	52,655	77,373	983	4,669	42,948
284	Soap and related products.	129	20	3,885	17,695	2,502	3,471	9,873	81,819	(2)	2,072	3,407	53,252
2841	Soap and glycerin.....	27	10	2,466	11,522	1,646	1,882	6,956	61,547	106,432	1,286	(D)	(D)
2842	Cleaning and polishing products.....	102	10	1,419	6,173	856	1,588	2,917	20,272	46,839	785	919	(D)
285	Paints and allied products	113	47	6,132	27,415	3,869	7,513	14,779	85,336	(2)	1,641	5,638	50,260
2851	Paints and varnishes.....	96	40	3,953	18,021	2,196	4,291	7,784	49,167	98,201	1,017	3,264	32,181
2852	Inorganic color pigments....	6	6	2,099	9,080	1,617	3,114	6,824	35,510	66,298	592	(D)	(D)
287	Fertilizers.....	62	28	1,574	6,110	1,269	3,004	4,474	18,546	(2)	3,394	366	(D)
2871	Fertilizers.....	16	10	685	2,760	581	1,447	2,158	8,493	29,584	1,779	307	2,539
2872	Fertilizers, mixing only....	46	18	889	3,350	687	1,557	2,315	10,053	42,357	1,615	(D)	(D)
288	Vegetable and animal oils.	151	53	4,572	17,705	3,503	7,761	12,604	46,952	(2)	5,661	4,036	70,009
2882	Linseed oil mills.....	5	5	835	3,729	650	1,695	3,282	11,652	100,491	809	(D)	(D)
2883	Soybean oil mills.....	37	28	1,898	7,462	1,534	3,054	5,037	22,336	239,119	3,566	1,365	20,194
2891	Printing ink.....	13	6	244	1,186	164	342	611	2,299	4,388	59	234	1,655

See footnotes at end of table.

## MANUFACTURES—AREA STATISTICS

## West North Central

Table 2.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Code	Industry group and industry	1954								1947			
		Establish- ments, number		All employees		Production workers			Value added by manu- facture (\$1,000)	Value of ship- ments (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
28	Chemicals and allied products--Continued												
2893	Toilet preparations.....	59	15	1,821	6,310	1,156	2,044	3,239	56,806	74,046	393	2,790	27,124
2894	Glue and gelatin.....	14	5	229	957	148	282	461	1,809	4,424	121	222	1,125
2896	Compressed & liquefied gases.....	37	11	689	2,921	409	838	1,575	6,768	9,269	919	648	4,755
2898	Salt.....	3	3	415	1,508	369	777	1,281	5,863	8,098	491	627	3,592
2899	Chemical products, nec....	88	13	1,573	7,247	976	1,955	3,775	24,115	43,372	1,336	1,134	7,573
29	Petroleum and coal prod- ucts.....	103	55	9,404	45,756	7,102	14,406	32,412	105,298	( <sup>2</sup> )	25,836	8,499	75,802
2911	Petroleum refining.....	28	22	6,012	30,801	4,578	9,114	22,464	74,927	497,116	23,695	5,625	56,397
293	Coke and byproducts.....	4	4	903	4,055	730	1,469	3,056	4,457	21,569	850	703	2,959
2932	Byproduct coke ovens.....	4	4	903	4,055	730	1,469	3,056	4,457	21,569	850	703	2,959
295	Paving & roofing materials	28	15	1,174	5,150	925	2,002	3,815	11,348	( <sup>2</sup> )	992	1,090	9,395
2951	Paving mixtures and blocks..	14	5	238	1,052	180	339	695	2,424	5,519	378	127	885
2952	Roofing felts and coatings..	14	10	936	4,098	744	1,662	3,120	8,924	24,173	613	963	8,510
299	Petroleum and coal prod- ucts, nec.....	43	14	1,315	5,750	869	1,821	3,076	14,566	( <sup>2</sup> )	298	1,081	7,051
2992	Lubricants, nec.....	35	11	816	3,723	479	972	1,639	10,720	25,122	(D)	810	5,445
2999	Petroleum & coal prod., nec.	8	3	499	2,027	389	848	1,436	3,845	7,753	(D)	(D)	(D)
30	Rubber products.....	78	20	7,569	29,977	6,276	11,799	23,567	79,941	( <sup>2</sup> )	8,355	5,785	31,032
31	Leather & leather goods..	234	161	39,073	99,040	35,617	62,632	82,610	182,081	( <sup>2</sup> )	2,286	45,395	128,775
3111	Leather tanning and fin- ishing.....	7	5	669	2,392	570	1,104	1,875	4,311	13,043	117	(D)	(D)
3131	Footwear cut stock.....	34	26	2,941	8,185	2,618	4,900	6,579	13,541	39,622	1,044	4,131	8,975
314	Footwear, except rubber...	120	100	32,044	78,601	29,458	51,018	67,068	149,239	( <sup>2</sup> )	918	37,263	104,784
3141	Footwear, except rubber....	117	97	31,596	77,591	29,055	50,318	66,244	147,419	261,770	906	36,986	104,189
3142	House slippers.....	3	3	448	1,009	403	700	823	1,819	3,283	12	277	595
315	Leather gloves.....	11	6	249	549	214	373	448	623	( <sup>2</sup> )	(D)	212	602
3161	Luggage.....	15	6	1,178	3,703	1,031	2,033	2,876	5,361	10,628	87	1,334	4,055
317	Purses and small leather goods.....	25	13	1,633	4,574	1,443	2,639	3,085	7,755	( <sup>2</sup> )	100	1,094	4,045
3171	Handbags and purses.....	15	8	977	2,449	897	1,590	1,903	3,096	6,258	53	(D)	(D)
3172	Small leather goods.....	10	5	656	2,125	546	1,048	1,182	4,658	7,065	46	(D)	(D)
319	Miscellaneous leather goods.....	17	4	299	776	249	508	576	954	( <sup>2</sup> )	(D)	(D)	(D)
32	Stone, clay, and glass products.....	933	244	32,289	130,208	26,592	56,590	100,737	285,846	( <sup>2</sup> )	20,373	28,049	148,796
322	Pressed & blown glassware.	4	2	231	673	190	293	448	1,488	1,969	50	(D)	(D)
3229	Pressed & blown glass, nec..	4	2	231	673	190	293	448	1,488	1,969	50	(D)	(D)
3231	Products of purchased glass.....	40	7	552	2,256	416	783	1,392	4,384	6,868	59	448	1,938
3241	Cement, hydraulic.....	21	20	5,430	21,511	4,786	9,782	18,112	70,970	102,607	7,689	5,211	33,865
325	Structural clay products..	86	66	7,327	28,516	5,945	12,685	21,058	46,296	( <sup>2</sup> )	2,669	8,102	34,436
3251	Brick and hollow tile.....	47	36	1,912	6,853	1,618	3,588	5,198	10,767	14,361	1,236	2,118	8,699
3254	Sewer pipe.....	8	8	898	3,482	811	1,762	2,965	5,979	7,702	178	893	3,498
3255	Clay refractories.....	14	12	3,844	15,933	2,946	6,089	11,045	25,756	39,593	1,121	4,530	19,644
326	Pottery & related products	25	7	521	1,397	456	928	1,128	1,965	( <sup>2</sup> )	112	737	1,503
327	Concrete and plaster prod- ucts.....	592	95	10,676	40,062	8,500	18,232	29,713	92,886	( <sup>2</sup> )	6,698	7,752	37,798
3271	Concrete products.....	558	76	6,101	21,084	4,781	9,987	14,403	41,187	75,860	4,030	4,521	18,603
3272	Gypsum products.....	7	6	1,382	5,850	1,164	2,830	4,836	22,664	34,613	658	(D)	(D)
3274	Lime.....	14	6	1,190	4,482	1,038	2,089	3,579	8,439	14,004	703	(D)	(D)
3275	Mineral wool.....	13	7	2,001	8,645	1,516	3,325	6,894	20,595	36,855	1,306	1,503	5,025
329	Nonmet. mineral prod., nec.....	83	15	1,943	8,034	1,613	3,315	6,036	19,256	( <sup>2</sup> )	641	(D)	(D)
3291	Abrasive products.....	7	2	356	1,749	252	529	1,021	4,229	5,548	(D)	53	272
3292	Asbestos products.....	9	6	982	3,847	858	1,687	3,204	7,830	15,102	168	(D)	(D)
3295	Minerals: ground or treated.	24	5	323	1,334	274	630	1,048	4,870	7,708	(D)	(D)	(D)
3298	Statuary and art goods.....	22	1	102	341	84	166	247	536	727	12	174	550
33	Primary metal industries	306	158	25,177	106,864	21,566	42,047	83,320	182,297	( <sup>2</sup> )	10,353	26,002	115,014

See footnotes at end of table.



## West North Central

Table 2.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Code	Industry group and industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manu- facture (\$1,000)	Value of ship- ments (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
33	Primary metal industries--Continued												
331	Blast furnaces and steel mills.....	6	6	7,556	36,858	6,537	13,052	29,309	57,473	( <sup>2</sup> )	5,268	7,833	30,629
332	Iron and steel foundries..	133	82	9,180	35,436	8,090	15,334	28,631	51,397	( <sup>2</sup> )	1,341	12,748	52,015
3321	Gray-iron foundries.....	117	67	5,575	20,265	4,954	9,264	16,685	30,453	46,881	722	8,924	36,993
3322	Malleable-iron foundries....	3	3	466	1,841	391	730	1,332	2,576	3,571	24	581	2,455
3323	Steel foundries.....	13	12	3,138	13,329	2,744	5,339	10,613	18,367	28,661	595	3,243	12,567
3341	Secondary nonferrous met- als.....	16	9	554	2,017	421	857	1,341	4,318	26,113	234	469	3,744
3361	Nonferrous foundries.....	114	48	3,655	13,371	3,235	6,105	10,636	21,097	42,902	772	3,353	(D)
339	Primary metal industries, nec.....	27	8	1,333	6,258	975	2,038	4,120	11,587	( <sup>2</sup> )	851	715	3,790
3399	Primary metal industries, nec.....	20	3	232	1,059	186	384	718	1,812	3,445	182	(D)	(D)
34	Fabricated metal prod- ucts.....	1,253	401	49,396	207,439	38,626	77,724	142,259	368,164	( <sup>2</sup> )	19,392	44,801	231,835
3411	Tin cans and other tinware	10	8	3,171	13,642	2,736	5,630	11,099	32,261	91,769	6,212	2,253	10,880
342	Cutlery, tools, & hardware	131	49	4,884	19,083	4,069	8,010	13,709	32,752	( <sup>2</sup> )	686	4,572	21,065
3422	Edge tools.....	23	15	1,580	6,649	1,359	2,677	5,157	10,666	16,178	96	(D)	(D)
3423	Hand tools, nec.....	52	17	1,474	5,495	1,200	2,395	3,887	9,868	14,963	189	1,982	10,159
3425	Hand saws and saw blades....	4	1	135	666	117	224	370	973	1,206	2	(D)	(D)
3429	Hardware, nec.....	45	15	1,645	6,077	1,348	2,628	4,157	10,893	19,535	358	1,396	5,165
343	Heating and plumbing equipment.....	69	33	6,477	27,560	4,562	9,156	17,966	53,317	( <sup>2</sup> )	1,559	8,955	50,600
3431	Plumbing fixtures & fittings	11	6	666	2,786	553	1,120	2,089	4,764	9,520	100	(D)	(D)
3439	Heating and cooking equip., nec.....	58	27	5,810	24,774	4,009	8,035	15,877	48,552	91,546	1,459	8,341	46,711
344	Structural metal products.	518	164	19,235	85,899	14,452	29,770	56,482	144,549	( <sup>2</sup> )	6,744	16,781	87,452
3441	Structural & ornamental work	194	80	9,301	42,008	6,948	14,813	27,192	73,364	152,387	2,921	6,122	35,585
3442	Metal doors, sash, and trim.	73	15	1,822	7,785	1,361	2,641	4,861	12,066	22,904	616	1,111	4,704
3443	Boiler shop products.....	78	31	3,414	15,417	2,789	5,507	11,071	25,743	45,668	851	6,597	32,898
3444	Sheet-metal work.....	173	38	4,697	20,688	3,354	6,808	13,358	33,376	71,905	2,356	2,951	14,265
346	Metal stamping and coating	244	71	5,974	23,667	4,927	9,864	16,962	38,971	( <sup>2</sup> )	1,620	5,041	22,272
3463	Metal stampings.....	109	46	4,235	17,205	3,452	6,888	12,164	28,569	46,844	1,052	3,852	17,601
3465	Enameling and lacquering....	18	4	360	1,348	286	612	897	2,082	2,804	44	148	564
3468	Plating and polishing.....	103	18	1,240	4,585	1,075	2,145	3,537	7,440	9,980	396	925	3,686
3471	Lighting fixtures.....	45	14	1,529	5,578	1,222	2,439	3,516	12,855	23,272	164	1,514	8,449
348	Fabricated wire products..	83	34	3,491	13,806	2,838	5,430	9,512	24,208	( <sup>2</sup> )	1,106	3,139	17,838
3489	Wirework, nec.....	83	34	3,491	13,806	2,838	5,430	9,512	24,208	43,686	1,106	3,128	(D)
349	Metal products, nec.....	153	28	4,632	18,202	3,818	7,423	13,010	29,248	( <sup>2</sup> )	1,297	2,546	13,279
3494	Bolts, nuts, washers, and rivets.....	7	3	486	1,897	368	690	1,227	3,209	5,047	101	526	2,317
3495	Screw machine products.....	66	13	1,546	6,263	1,282	2,563	4,516	8,611	14,241	490	641	3,018
3499	Fabricated metal prod., nec.	64	5	1,082	4,216	901	1,709	3,040	6,459	13,929	375	(D)	(D)
35	Machinery, except elec- trical.....	1,636	508	92,163	392,514	69,657	138,814	267,059	683,546	( <sup>2</sup> )	40,608	91,050	440,719
351	Engines and turbines.....	11	8	2,867	11,899	2,248	4,906	8,938	19,061	( <sup>2</sup> )	1,356	2,721	10,918
352	Tractors & farm machinery.	320	109	24,622	103,968	18,939	36,045	73,772	176,181	( <sup>2</sup> )	13,364	27,874	121,137
3521	Tractors.....	32	15	10,112	44,538	7,919	14,383	32,323	70,272	148,467	8,949	12,449	44,164
3522	Farm machinery (except trac- tors).....	288	94	14,509	59,430	11,019	21,661	41,449	105,908	225,387	4,414	15,425	76,973
353	Construction and mining machinery.....	80	45	9,127	40,285	6,672	13,605	25,784	71,413	( <sup>2</sup> )	2,128	10,098	56,846
3531	Construction and mining ma- chinery.....	67	40	8,073	35,693	5,890	12,090	22,992	61,440	119,808	1,878	8,768	49,100
3532	Oil-field machinery and tools.....	13	5	1,053	4,591	782	1,515	2,791	9,972	17,022	249	1,330	7,746
354	Metalworking machinery....	270	56	5,350	23,631	4,165	8,477	16,323	34,777	( <sup>2</sup> )	1,566	4,907	26,183
3541	Machine tools.....	27	10	1,197	5,140	853	1,571	2,986	6,943	11,817	192	1,377	8,871
3542	Metalworking machinery.....	25	10	1,451	6,474	1,041	2,086	3,968	9,958	17,702	268	1,864	10,090
3544	Special dies and tools.....	203	32	2,272	10,214	1,939	4,100	8,251	15,298	19,986	1,073	1,666	7,222
3545	Metalworking mach. attach- ments.....	15	4	429	1,802	331	718	1,117	2,577	3,420	32		

See footnotes at end of table.

## MANUFACTURES—AREA STATISTICS

## West North Central

Table 2.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Code	Industry group and industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manu- facture (\$1,000)	Value of ship- ments (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
35	Machinery, except electrical—Continued												
355	Special-industry mach., nec.....	150	45	4,357	19,174	3,050	6,320	12,009	31,786	( <sup>2</sup> )	1,067	7,949	40,083
3551	Food-products machinery.....	67	22	2,522	11,430	1,742	3,653	7,064	18,709	31,502	700	4,336	22,814
3553	Woodworking machinery.....	13	4	247	1,040	186	384	686	1,491	2,539	47	725	3,815
3554	Paper-industries machinery...	8	2	223	1,045	168	338	707	2,211	2,588	19	(D)	(D)
3555	Printing-trades machinery...	21	3	255	1,082	166	335	601	1,657	2,486	45	403	2,083
3559	Special-industry mach., nec.	38	13	1,069	4,440	758	1,552	2,860	7,560	11,422	250	2,015	8,668
356	General industrial machinery.....	178	76	10,602	44,489	7,879	16,098	29,063	73,575	( <sup>2</sup> )	3,523	6,965	35,917
3561	Pumps and compressors.....	39	19	4,298	17,695	3,336	6,823	12,695	28,883	61,002	1,861	2,683	15,225
3563	Conveyors.....	44	16	2,654	11,860	1,798	3,729	6,720	21,866	38,978	743	1,295	7,403
3564	Blowers and fans.....	14	8	658	2,683	505	980	1,698	4,642	10,075	121	311	1,755
3565	Industrial trucks & tractors	17	6	917	3,906	667	1,391	2,440	6,081	12,468	394	463	2,309
3566	Power-transmission equipment	23	13	954	3,766	768	1,500	2,671	5,420	8,114	167	972	3,962
3567	Industrial furnaces & ovens.	6	3	379	1,524	268	552	828	1,942	5,309	33	(D)	(D)
3569	General industrial mach., nec.....	20	5	424	1,729	313	653	1,140	2,364	4,218	139	478	2,202
357	Office and store machines.	21	6	2,398	10,374	1,669	2,995	5,594	17,518	( <sup>2</sup> )	794	390	2,102
358	Service and household machines.....	126	74	20,098	84,046	14,840	30,175	54,751	166,321	( <sup>2</sup> )	10,024	17,729	88,658
3581	Domestic laundry equipment..	9	8	4,416	18,657	3,238	6,527	12,243	39,269	88,789	(D)	4,987	25,173
3582	Laundry & dry-cleaning mach.	7	2	250	1,090	180	375	671	2,239	3,528	70	(D)	(D)
3585	Refrigeration machinery.....	70	44	12,776	52,700	9,760	19,897	35,739	104,159	( <sup>2</sup> )	3,799	9,794	47,025
3586	Measuring & dispensing pumps	6	5	1,278	5,548	819	1,677	3,057	9,992	14,716	(D)	1,454	7,935
359	Miscellaneous mach. parts.	480	82	12,739	54,646	10,190	20,190	40,822	92,912	( <sup>2</sup> )	6,783	12,417	58,875
3591	Valves & fittings, except plumbing.....	22	13	2,540	10,665	1,992	4,117	7,134	22,840	36,250	2,398	2,431	12,603
3594	Industrial patterns & molds.	66	3	450	2,044	384	724	1,591	3,311	4,035	166	(D)	(D)
3599	Machine shops.....	381	60	8,721	37,054	7,062	13,800	28,842	57,364	93,118	3,986	9,024	40,175
36	Electrical machinery....	272	129	41,001	163,445	31,029	61,439	109,748	283,386	( <sup>2</sup> )	10,761	34,449	155,359
361	Elec. industrial apparatus	110	54	18,367	79,934	13,670	27,208	52,904	134,317	( <sup>2</sup> )	6,520	17,249	82,190
3611	Wiring devices and supplies.	19	9	1,084	4,200	792	1,539	2,677	9,835	17,205	436	1,601	9,602
3613	Elec. measuring instruments.	12	4	331	1,082	269	555	745	1,614	2,531	(D)	202	564
3614	Motors and generators.....	20	16	9,815	43,243	7,434	14,533	30,047	64,235	107,529	3,412	10,742	44,764
3616	Electrical control apparatus	25	12	3,595	14,614	2,728	5,864	9,087	25,915	42,767	513	2,546	14,876
3617	Electrical welding apparatus	14	5	433	1,825	294	565	986	3,276	6,322	78	403	3,654
3621	Electrical appliances.....	19	7	1,610	5,439	1,262	2,557	3,504	8,196	16,579	359	3,842	16,348
3641	Engine elec. equipment....	7	2	277	725	253	565	568	1,465	2,312	50	417	1,008
366	Communication equipment...	87	43	16,007	61,563	11,881	23,719	40,517	105,312	( <sup>2</sup> )	2,935	8,228	28,188
3661	Radios and related products.	68	35	13,041	50,687	9,674	19,703	32,778	83,326	( <sup>2</sup> )	2,492	(D)	(D)
3669	Communication equipment, nec.....	9	3	125	444	95	190	327	552	1,073	10	211	770
369.	Electrical products, nec..	44	18	3,561	11,279	2,970	5,495	8,593	20,489	( <sup>2</sup> )	533	(D)	(D)
3691	Storage batteries.....	22	8	667	2,676	550	1,094	2,089	6,224	18,467	377	1,010	8,350
3692	Primary batteries.....	3	3	1,596	4,772	1,443	2,647	4,187	9,041	15,606	64	(D)	(D)
3693	X-ray and therapeutic apparatus.....	6	1	102	327	67	109	194	499	886	33	(D)	(D)
3699	Electrical products, nec....	13	6	1,195	3,503	908	1,644	2,122	4,723	13,028	57	(D)	(D)
37	Transportation equipment	325	129	113,220	524,870	85,505	179,076	379,260	1,002,511	( <sup>2</sup> )	21,058	41,255	243,710
371	Motor vehicles & equipment	176	60	27,528	131,539	22,629	47,484	102,022	382,045	( <sup>2</sup> )	11,546	22,553	165,891
3715	Truck trailers.....	16	11	2,872	14,477	1,936	3,828	7,986	18,591	52,665	537	947	4,496
372	Aircraft and parts.....	80	50	81,234	375,986	59,178	124,219	264,168	591,642	( <sup>2</sup> )	6,963	(D)	(D)
3729	Aircraft equipment, nec.....	71	41	15,634	69,719	12,169	24,848	50,006	118,141	203,687	2,958	(D)	(D)
373	Ships and boats.....	35	9	1,434	5,581	1,266	2,663	4,573	10,836	( <sup>2</sup> )	478	903	3,003
374	Railroad equipment.....	6	6	2,287	8,978	1,854	3,545	6,608	14,070	( <sup>2</sup> )	1,869	5,029	20,232
38	Instruments and related products.....	152	49	17,319	73,631	11,625	23,577	42,744	141,582	( <sup>2</sup> )	4,077	(D)	(D)
3811	Scientific instruments....	15	6	6,947	31,306	4,269	8,751	17,233	57,961	82,281	812	177	801
3821	Mech. measuring instruments.....	26	11	7,867	33,675	5,349	10,974	19,688	68,977	90,271	2,565	(D)	(D)
384	Medical equip. & supplies.	70	15	1,193	3,754	938	1,715	2,483	5,759	( <sup>2</sup> )	174	928	3,517
3841	Surgical and medical instruments.....	16	3	315	1,089	258	480	762	1,320	2,375	74	56	227
3842	Surgical appliances and supplies.....	44	11	803	2,366	626	1,145	1,578	3,868	7,716	76	788	2,595

See footnotes at end of table.



## GEOGRAPHIC DIVISIONS

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## West North Central

Table 2.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Code	Industry group and industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more employees										
				Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
38	Instruments and related products—Continued												
3851	Ophthalmic goods.....	13	8	510	1,627	443	866	1,273	2,739	3,963	128	378	1,197
3861	Photographic equipment....	17	7	709	2,953	555	1,147	1,866	5,610	9,220	374	1,399	6,408
39	Miscellaneous manufactures <sup>4</sup> .....	870	257	57,163	(D)	46,408	(D)	(D)	(D)	( <sup>2</sup> )	(D)	22,765	94,087
391	Jewelry and silverware....	35	7	899	3,783	676	1,396	2,586	7,179	( <sup>2</sup> )	68	(D)	(D)
393	Musical instruments and parts.....	8	2	205	786	155	312	550	1,309	( <sup>2</sup> )	16	205	(D)
394	Toys and sporting goods...	158	49	4,380	12,145	3,824	6,938	9,239	20,052	( <sup>2</sup> )	783	3,533	11,971
3941	Games and toys, nec.....	44	11	1,132	3,076	960	1,612	2,077	5,107	9,906	298	842	2,589
3942	Dolls.....	7	3	114	222	103	161	178	414	1,141	21	(D)	(D)
3943	Children's vehicles.....	4	3	540	1,848	450	916	1,326	3,076	6,404	78	(D)	(D)
3949	Sporting and athletic goods.	103	32	2,594	6,998	2,309	4,247	5,657	11,454	23,947	385	1,908	6,732
395	Office supplies.....	53	15	3,024	14,044	2,196	4,340	7,463	25,999	( <sup>2</sup> )	712	4,088	19,623
3951	Pens and mechanical pencils.	11	7	2,382	11,715	1,747	3,403	6,031	21,668	31,490	(D)	(D)	(D)
3953	Hand stamps and stencils....	34	5	322	1,062	231	457	703	1,588	2,643	49	457	1,732
396	Costume jewelry & notions.	42	16	1,990	4,691	1,768	3,328	3,501	6,725	( <sup>2</sup> )	171	2,420	6,761
3963	Buttons.....	20	11	1,408	3,326	1,246	2,215	2,396	4,041	6,962	65	2,017	5,372
3971	Plastics products, nec....	110	30	2,397	7,919	2,076	4,011	5,986	13,503	24,739	2,035	(D)	(D)
3981	Brooms and brushes.....	57	12	1,163	2,928	949	1,648	1,878	4,063	7,705	104	1,106	4,229
3983	Matches.....	3	3	951	2,896	882	1,746	2,526	5,350	8,900	249	1,020	3,779
3988	Morticians' goods.....	63	21	1,224	4,237	889	1,724	2,382	6,419	11,990	137	2,496	8,931
3991	Beauty & barber-shop equip.....	5	4	282	1,179	233	461	860	1,868	3,471	36	278	1,210
3993	Signs & advertising displays.....	239	50	3,239	12,303	2,503	4,953	8,092	19,682	31,658	768	2,772	11,205
3999	Miscellaneous products, nec.....	4	2	173	391	156	268	307	827	1,394	11	1,682	7,444
19--	Ordnance and accessories....	34	30	36,077	156,306	29,117	59,105	123,074	256,590	( <sup>2</sup> )	9,161	(D)	(D)

Note: Detailed figures may not add to total because of independent rounding. D Withheld to avoid disclosing figures for individual companies. NA Not available. <sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industries (4-digit) and industry groups (3-digit) are not shown. Industries and industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "all industries" line. <sup>2</sup>The total value of shipments figures for industry groups and a few individual industries have not been published due to the extensive and unmeasurable duplication arising from shipments from one establishment to another in the same industry classification. (See Introduction.) <sup>3</sup>Comparable data for major groups 20 and 24 are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude establishments in S.I.C. Industry 2411, Logging Camps and Contractors, which are included in the scope of the 1954 Census; the 1947 Census also excludes plants processing and distributing fluid milk which in 1954 were classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	All industries except subgroups 202 and 2411, total.....	900,354	6,848,222	762,643	3,996,391
20	Food and kindred products except subgroup 202, Dairy products.....	180,153	1,410,525	189,883	1,116,249
24	Lumber and wood products except Industry 2411, Logging camps and contractors.....	21,481	110,048	21,054	78,517

<sup>4</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)

## MANUFACTURES—AREA STATISTICS

## West North Central

Table 3.—DISTRIBUTION OF OPERATING MANUFACTURING ESTABLISHMENTS BY EMPLOYMENT SIZE GROUPS AND MAJOR INDUSTRY GROUPS, FOR THE DIVISION: 1954

20 Food and kindred products	26 Pulp paper and products	32 Stone, clay, and glass products	38 Instruments and related products
21 Tobacco manufactures	27 Printing and publishing	33 Primary metal industries	39 Miscellaneous manufactures (Includes Group 19 Ordinance and accessories)
22 Textile mill products	28 Chemicals and products	34 Fabricated metal products	
23 Apparel and related products	29 Petroleum and coal products	35 Machinery, except electrical	
24 Lumber and wood products	30 Rubber products	36 Electrical machinery	
25 Furniture and fixtures	31 Leather and leather goods products	37 Transportation equipment	

Size group	Number of establishments	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
West North Central Division, total...	19,020	4,852	11	75	903	1,814	497	255	3,570	881	103	78	234	933	306	1,253	1,636	272	325	152	870
1 to 4 employees.....	7,620	1,668	6	13	170	1,160	190	28	1,903	296	16	37	35	387	67	424	609	80	98	65	368
5 to 9 employees.....	3,357	961	1	7	99	274	74	21	740	164	20	14	22	165	43	221	294	29	41	26	141
10 to 19 employees.....	2,561	792	1	9	112	147	87	34	399	131	12	7	16	137	38	207	225	34	57	12	104
20 to 49 employees.....	2,557	689	2	17	214	132	80	54	316	144	22	9	27	129	68	192	231	36	42	23	130
50 to 99 employees.....	1,335	356	...	9	159	71	33	49	113	74	8	2	23	49	40	96	119	27	29	13	65
100 to 249 employees.....	982	274	...	14	113	21	24	45	65	48	16	3	46	36	34	72	79	33	16	7	36
250 to 499 employees.....	344	62	...	4	29	5	8	13	21	14	5	...	50	23	9	27	41	14	10	2	7
500 to 999 employees.....	136	18	1	1	7	3	1	9	5	4	3	4	13	5	3	12	22	10	10	...	5
1,000 to 2,499 employees.....	90	20	...	1	...	1	...	1	7	5	1	2	2	2	3	2	13	6	13	2	9
2,500 employees and over.....	38	12	...	...	...	...	...	1	1	1	...	...	...	...	1	...	3	3	9	2	5



## GEOGRAPHIC DIVISIONS

10-41

## South Atlantic

Table 1A.—MANUFACTURING EMPLOYMENT AT OPERATING ESTABLISHMENTS AND CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARIES FOR THE DIVISION: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Year <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	(Number)	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
South Atlantic Division						
1954 <sup>2</sup> .....	1,778,959	5,702,560	1,745,372	5,480,901	33,587	221,659
1953 <sup>2</sup> .....	1,816,621	5,670,176	1,783,099	5,493,716	33,522	176,460
1952 <sup>2</sup> .....	1,751,671	5,152,447	1,722,184	5,010,227	29,487	142,220
1951 <sup>2</sup> .....	1,697,457	4,784,021	1,667,970	4,641,801	29,487	142,220
1950 <sup>2</sup> .....	1,626,884	4,146,930	1,604,261	4,066,254	22,623	80,676
1949 <sup>2</sup> .....	1,521,782	3,680,685	1,502,335	3,611,821	19,447	68,864

Note: South Atlantic Division consists of: Delaware, Maryland, District of Columbia, Virginia, West Virginia, North Carolina, South Carolina, Georgia and Florida.

<sup>1</sup>Employment data for administrative offices and auxiliaries are not available for the years prior to 1949.

<sup>2</sup>The employment figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period. The employment figures for administrative and auxiliary units were compiled chiefly from Bureau of Old-Age and Survivors Insurance records and are not strictly comparable with the figures for these units that were collected by the Bureau of the Census for the year 1954.

<sup>3</sup>The 1951 data are shown for 1952 since auxiliary and administrative unit data were not collected in 1952.

TABLE 1B.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS IN THE DIVISION: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Division and year	Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)	Horse power of prime movers and electric motors <sup>1</sup> (1,000 hp)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
South Atlantic:									
1954 <sup>2</sup> .....	30,530	1,745,372	5,480,901	1,466,333	2,847,757	4,072,169	10,657,729	789,254	11,879
1953 <sup>2</sup> .....		1,783,099	5,493,716	1,525,603	3,000,697	4,270,016	10,686,205	760,852	
1952 <sup>2</sup> .....		1,722,184	5,010,227	1,484,507	2,902,768	3,903,100	9,656,904	687,822	
1951 <sup>2</sup> .....		1,667,970	4,641,801	1,451,120	2,843,829	3,647,663	9,316,475	795,660	
1950 <sup>2</sup> .....	(NA)	1,604,261	4,066,254	1,388,791	2,728,620	3,217,890	8,471,115	(NA)	(NA)
1949 <sup>2</sup> .....		1,502,335	3,611,821	1,301,533	2,504,937	2,819,696	7,074,658		
1947.....	24,000	1,523,890	3,371,438	1,344,836	(NA)	2,710,001	6,941,906	677,651	5,607
1939.....	16,657	1,110,704	1,073,672	977,596		818,075	2,216,976		
1929.....	20,860	999,995	1,035,670	912,247	(NA)	825,903	2,458,223	(NA)	4,051
1919.....	28,682	896,592	940,127	812,122		771,839	1,846,999		
1909.....	28,088	715,047	301,652	663,015		244,379	591,182		
1899.....	19,324	482,712	153,274	458,344		130,864	316,115		

NA Not available.

<sup>1</sup>Driven by purchased electricity.

<sup>2</sup>The 1954 figures include data for establishments engaged in the processing and distribution of fluid milk, Industry Group 202, Dairy Products. These establishments were not included in the figures for the Annual Survey years 1949-1953 or earlier Census years. In addition, the 1954 Census and Annual Survey years include data for Logging Camps and Contractors, Industry 2411, which were not included within the scope of the 1947 Census and earlier Censuses. See footnotes to Table 2 for comparable 1954 and 1947 totals. There were also a number of changes in the definition of manufacturing industries during earlier Census years that affect the comparability of the historical series. Among the more important of these were: figures for 1935 and later years exclude data for "railroad repair shops" and "manufactured gas" which were included in 1899-1933 figures; the minimum size of establishment included for 1954 and 1947 was one employee, for 1939-1921 manufacturing establishments reporting value of shipments of \$5,000 or more were within scope whereas for 1919 and earlier years the cut-off was \$500. (This change in procedure has not appreciably affected the comparability of the historical data except for the figures on number of establishments.)

<sup>3</sup>The employment and payroll figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period.

## MANUFACTURES—AREA STATISTICS

## South Atlantic

Table 2.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Code	Industry group and industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manu- facture (\$1,000)	Value of ship- ments (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
	All industries, total <sup>1</sup>	30,530	9,428	1,745,372	5,480,901	1,466,333	2,847,757	4,072,169	10,657,729	( <sup>2</sup> )	789,254	<sup>3</sup> 1,523,890	<sup>3</sup> 6,941,906
20	Food and kindred prod- ucts.....	4,813	1,790	186,465	568,862	126,189	256,340	312,634	1,236,284	( <sup>2</sup> )	92,193	( <sup>4</sup> )	( <sup>4</sup> )
201	Meat products.....	637	277	32,481	95,229	26,419	53,522	67,587	163,170	( <sup>2</sup> )	10,729	21,169	79,379
2011	Meat packing plants.....	286	129	16,010	55,631	11,902	24,883	36,874	84,575	( <sup>2</sup> )	6,691	11,961	48,702
2013	Prepared meats.....	141	40	4,020	13,675	3,083	6,049	8,888	24,697	( <sup>2</sup> )	1,827	(NA)	(NA)
2015	Poultry dressing plants.....	210	108	12,450	25,923	11,434	22,589	21,824	53,897	367,426	2,210	5,058	13,645
202	Dairy products.....	693	293	28,700	102,024	13,189	30,132	39,469	212,173	( <sup>2</sup> )	17,104	( <sup>4</sup> )	( <sup>4</sup> )
2021	Creamery butter.....	33	5	357	1,076	239	525	625	2,088	10,492	84	( <sup>4</sup> )	( <sup>4</sup> )
2023	Concentrated milk.....	17	8	646	2,299	526	1,236	1,737	10,709	37,053	1,027	( <sup>4</sup> )	( <sup>4</sup> )
2024	Ice cream and ices.....	139	60	4,336	14,249	2,513	5,618	6,887	38,801	85,033	3,622	( <sup>4</sup> )	( <sup>4</sup> )
2027	Fluid milk & other products.	358	202	21,697	79,114	8,729	20,247	26,838	151,484	453,473	11,382	( <sup>4</sup> )	( <sup>4</sup> )
2032	Cured fish.....	13	4	380	817	357	779	701	1,468	4,273	(D)	(D)	(D)
2033	Canned fruits & vegetables	337	163	19,118	41,930	17,222	30,922	31,970	74,394	235,682	5,584	20,674	63,441
2035	Pickles and sauces.....	70	29	2,899	6,846	2,457	4,679	4,738	14,066	50,025	617	2,165	10,235
2036	Packaged seafood.....	126	62	5,486	9,008	5,161	8,616	7,395	16,442	47,143	1,494	2,272	4,348
2037	Frozen fruits & vegetables	39	29	5,511	15,931	4,621	9,686	12,180	47,328	156,726	3,414		
204	Grain mill products.....	542	129	10,328	31,785	7,070	15,650	17,974	73,994	( <sup>2</sup> )	7,798	8,699	52,602
2041	Flour and meal.....	217	30	2,709	7,961	1,871	4,123	4,591	18,744	79,457	1,278	2,859	18,088
2042	Prepared animal feeds.....	313	98	7,513	23,502	5,111	11,360	13,201	54,620	314,137	6,214	5,732	33,570
205	Bakery products.....	539	272	31,374	108,681	19,510	41,494	54,783	199,183	( <sup>2</sup> )	16,555	28,249	131,973
2051	Bread and related products..	518	257	27,957	98,331	16,803	36,123	47,344	169,362	356,826	12,341	24,807	113,043
2052	Biscuit and crackers.....	21	15	3,417	10,349	2,707	5,370	7,439	29,620	57,328	4,214	3,442	18,930
208	Beverages.....	826	317	23,768	78,809	11,215	23,079	30,397	166,561	( <sup>2</sup> )	14,624	22,279	150,788
2081	Bottles soft drinks.....	788	288	18,684	57,279	7,914	16,567	17,351	115,488	221,290	11,125	15,292	80,896
2082	Beer and ale.....	21	19	3,307	14,012	1,889	3,746	7,327	25,458	54,147	3,189	(D)	(D)
209	Miscellaneous foods.....	811	148	15,972	49,351	10,153	20,108	24,320	201,879	( <sup>2</sup> )	10,041	18,526	116,388
2092	Shortening and cooking oils.	11	7	799	2,973	558	1,089	1,781	42,903	104,212	453	725	11,871
2095	Flavorings.....	50	8	1,203	4,682	638	1,226	1,641	41,736	73,645	769	1,080	24,703
2097	Manufactured ice.....	459	58	5,188	12,532	3,001	6,008	6,255	22,894	28,603	1,215	10,383	44,857
2099	Food preparations, nec.....	270	65	7,981	26,242	5,394	10,733	12,930	82,720	279,038	7,350	5,812	29,067
21	Tobacco manufactures....	163	125	53,711	150,802	49,207	92,038	126,917	644,244	( <sup>2</sup> )	17,617	(D)	(D)
2111	Cigarettes.....	9	9	22,441	76,163	20,683	39,283	66,799	514,720	1,268,756	14,487	21,777	316,124
2141	Tobacco stemming and re- drying.....	76	75	14,555	33,156	12,943	24,041	24,876	49,705	818,257	1,516	20,852	59,717
22	Textile mill products...	1,873	1,488	501,674	1,311,353	470,564	900,017	1,154,635	2,009,533	( <sup>2</sup> )	120,074	484,285	2,021,825
221	Woolen and worsted manu- facture.....	65	56	17,672	51,515	16,227	33,100	43,770	90,911	( <sup>2</sup> )	6,088	(D)	(D)
2212	Yarn mills, wool, exc. carpet	21	17	3,401	8,584	3,248	6,232	7,791	14,928	61,903	850	(D)	(D)
2241	Narrow fabric mills.....	66	46	4,499	11,415	4,182	8,078	9,840	19,449	42,458	1,053	2,899	12,826
225	Knitting mills.....	730	507	82,305	202,446	77,154	139,877	176,955	307,486	( <sup>2</sup> )	16,146	71,649	240,082
2251	Full-fashioned hosiery mills	255	168	28,825	84,686	26,937	50,651	75,071	126,574	( <sup>2</sup> )	3,646	(D)	(D)
2256	Knit fabric mills.....	42	25	3,233	9,275	2,879	5,780	7,462	17,586	81,812	1,951	(D)	(D)
229	Miscellaneous textile goods.....	87	39	6,860	17,130	6,237	12,036	13,598	27,595	( <sup>2</sup> )	1,571	6,334	24,021
2291	Felt goods, nec.....	5	3	986	2,423	954	1,872	2,087	4,367	7,998	69	(D)	(D)
2293	Padding & upholstery filling	22	6	1,169	3,035	1,058	2,124	2,216	4,150	15,131	469	(D)	(D)
2298	Cordage and twine.....	15	11	2,579	6,074	2,389	4,518	5,348	10,514	29,613	542	(D)	(D)
23	Apparel & related prod..	1,571	930	134,933	293,118	124,376	226,333	242,669	468,739	( <sup>2</sup> )	12,734	99,733	328,565
231	Men's and boys' suits and coats.....	124	73	13,184	38,297	11,676	20,631	29,739	58,627	( <sup>2</sup> )	418	13,325	61,024
232	Men's & boys' furnishings.	436	356	57,210	110,194	53,562	96,545	94,519	170,698	( <sup>2</sup> )	5,371	41,795	115,266
2321	Men's dress shirts and nightwear.....	167	149	27,213	52,825	25,664	46,826	46,568	87,127	161,819	2,516	19,215	54,861
2327	Separate trousers.....	81	59	9,506	19,184	8,979	16,605	16,155	26,968	58,737	865	6,226	17,195
2328	Work shirts.....	11	9	542	922	517	944	904	1,178	3,683	(D)	(D)	(D)
2329	Men's and boys' clothing, nec.....	125	106	15,998	30,031	14,645	25,323	24,493	44,768	125,721	1,294	12,839	35,254
233	Women's and misses' outer- wear.....	295	194	21,189	46,241	19,599	36,105	38,116	74,793	( <sup>2</sup> )	1,335	9,037	26,557
2333	Dresses, unit price.....	83	45	3,045	7,195	2,786	4,926	5,703	13,333	23,752	194	1,998	6,111
2334	Dresses, dozen price.....	84	65	10,285	21,403	9,625	18,731	18,248	30,102	56,238	606	4,516	10,840
2337	Women's suits, coats, and skirts.....	52	35	3,245	7,813	3,021	5,169	6,471	13,863	30,204	104	(D)	(D)
2339	Women's outerwear, nec.....	39	27	2,559	5,929	2,262	3,971	4,365	10,107	26,811	246	(D)	(D)

See footnotes at end of table.



## GEOGRAPHIC DIVISIONS

## South Atlantic

Table 2.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Code	Industry group and industry	1954										1947	
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
23	Apparel and related products—Continued												
234	Women's undergarments.....	108	87	13,919	30,574	12,738	23,732	25,648	58,165	( <sup>2</sup> )	1,516	5,753	22,386
236	Children's outerwear.....	88	61	6,626	12,853	6,233	11,492	11,150	18,550	( <sup>2</sup> )	593	(D)	(D)
238	Miscellaneous apparel.....	52	31	4,529	8,803	4,113	7,393	7,249	12,535	( <sup>2</sup> )	1,035	4,141	13,293
2382	Fabric work gloves.....	6	5	1,248	2,357	1,177	2,003	2,050	2,871	7,812	529	(D)	(D)
2387	Belts.....	9	3	150	276	135	242	231	475	855	20	(D)	(D)
2392	Housefurnishings, nec.....	147	62	12,341	30,821	11,351	20,936	25,092	51,786	168,556	1,849	18,194	60,364
2393	Textile bags.....	35	19	1,442	3,669	1,221	2,289	2,546	5,951	22,591	228	1,941	9,645
2394	Canvas products.....	121	17	1,810	4,936	1,525	2,806	3,453	7,227	16,152	143	1,209	(D)
2399	Textile products, nec.....	78	12	1,249	3,134	1,072	2,039	2,302	5,113	17,503	132	1,699	8,260
24	Lumber and wood products	10,308	1,398	135,102	268,860	124,225	228,252	224,843	431,308	( <sup>2</sup> )	26,940	( <sup>4</sup> )	( <sup>4</sup> )
2411	Logging camps and contractors.....	2,919	55	14,638	24,083	12,898	21,238	21,226	43,534	72,699	5,052	( <sup>4</sup> )	( <sup>4</sup> )
242	Lumber and basic products.....	6,437	1,014	86,513	161,207	80,768	145,691	137,649	258,030	( <sup>2</sup> )	16,604	103,946	270,738
2421	Sawmills and planing mills..	6,254	904	80,298	147,700	74,955	134,549	126,470	236,872	542,437	15,282	99,083	257,914
2422	Veneer mills.....	106	91	4,920	10,925	4,595	8,985	8,958	16,551	32,616	1,198	(D)	(D)
243	Millwork and related products.....	470	148	14,854	39,297	12,977	27,231	29,672	58,688	( <sup>2</sup> )	2,100	13,038	45,935
2431	Millwork plants.....	388	84	7,113	20,898	5,842	12,400	14,792	28,935	68,630	893	5,718	19,450
2432	Plywood plants.....	67	56	6,882	15,784	6,417	13,382	13,057	24,649	51,865	1,095	6,082	22,637
2433	Prefabricated wood products.....	15	8	858	2,614	717	1,448	1,821	5,102	12,029	112	1,238	3,848
244	Wooden containers.....	202	96	12,288	26,618	11,583	22,862	22,731	41,347	( <sup>2</sup> )	1,200	15,896	41,630
2441	Fruit and vegetable baskets.....	31	20	2,952	6,062	2,781	5,621	5,304	8,327	13,262	352	(D)	(D)
2444	Wooden boxes.....	132	71	8,691	19,058	8,224	16,130	16,166	30,451	62,903	751	11,009	31,293
249	Miscellaneous wood prod...	280	86	6,807	17,654	5,997	11,227	13,564	29,708	( <sup>2</sup> )	1,982	6,820	25,511
2491	Wood preserving.....	72	34	2,965	8,212	2,523	4,909	6,038	16,007	43,713	1,462	3,487	17,539
2493	Mirror and picture frames...	29	4	403	1,062	340	660	693	1,505	2,781	44	(D)	(D)
2499	Wood products, nec.....	179	48	3,438	8,379	3,133	5,657	6,832	12,195	26,201	475	(D)	(D)
25	Furniture and fixtures..	1,330	471	68,105	191,424	59,160	119,374	144,811	320,699	( <sup>2</sup> )	10,173	55,726	206,559
251	Household furniture.....	963	383	57,523	157,845	50,922	102,697	122,687	264,901	( <sup>2</sup> )	8,159	50,898	190,038
2511	Wood furniture, not upholstd.	444	202	39,975	107,528	35,797	73,419	85,559	175,109	343,181	5,298	38,505	142,134
2512	Upholstd. household furniture	284	121	10,911	31,425	9,527	18,568	23,831	51,982	108,098	1,429	8,312	28,848
2514	Metal household furniture...	61	25	2,262	5,602	1,970	3,436	4,140	10,499	27,383	555	(D)	(D)
252	Office furniture.....	9	9	1,623	4,537	1,377	2,800	3,331	9,200	( <sup>2</sup> )	176	(D)	(D)
253	Public and professional furniture.....	34	19	2,620	7,590	2,170	4,611	5,497	13,360	( <sup>2</sup> )	700	(D)	(D)
2541	Partitions and fixtures...	135	30	2,615	10,327	1,769	3,632	5,731	14,435	24,175	390	1,335	5,369
256	Screens, shades, & blinds.....	179	25	3,511	10,453	2,746	5,329	7,107	17,598	( <sup>2</sup> )	714	1,642	6,074
2561	Window and door screens.....	38	7	689	2,460	521	1,080	1,472	4,296	9,855	(D)	(D)	(D)
2563	Venetian blinds.....	132	17	2,750	7,779	2,162	4,124	5,482	12,981	31,061	459	1,140	4,391
259	Furniture & fixtures, nec.	10	4	210	670	174	304	455	1,202	( <sup>2</sup> )	31	312	805
26	Pulp, paper and products	393	292	63,025	249,954	52,168	109,535	189,695	637,445	( <sup>2</sup> )	135,555	46,076	312,508
261	Pulp, paper and board.....	107	102	34,806	152,333	28,674	61,282	118,248	449,652	( <sup>2</sup> )	115,501	28,464	218,920
2611	Pulp mills.....	42	39	16,202	72,101	13,300	28,573	56,513	220,846	484,074	62,217	12,847	92,369
2612	Paper and paper board mills.	57	55	17,306	74,968	14,270	30,449	57,520	215,222	666,864	52,213	14,696	119,901
2613	Building paper & board mills	8	8	1,298	5,264	1,103	2,259	4,215	13,584	30,774	1,070	921	6,630
2651	Envelopes.....	14	12	1,098	3,678	912	1,862	2,580	6,884	13,667	279	(D)	(D)
2661	Paper bags.....	41	30	7,348	24,798	6,371	12,844	19,562	45,807	151,836	4,763	3,558	18,597
267	Paperboard containers.....	158	109	14,456	49,760	11,865	24,309	35,296	84,612	( <sup>2</sup> )	10,571	9,905	51,398
2699	Paper & board prod., nec..	50	31	4,172	14,352	3,410	7,252	10,166	37,035	75,770	3,411	(D)	(D)
27	Printing and publishing.	2,870	504	61,941	249,179	38,170	74,912	143,862	416,094	( <sup>2</sup> )	17,703	49,335	262,272
2711	Newspapers.....	899	189	31,936	128,173	17,257	33,650	68,766	221,522	328,220	7,049	24,782	140,371
2721	Periodicals.....	165	27	3,384	15,759	287	321	711	31,649	60,300	276	3,262	23,346
273	Books.....	97	26	1,957	7,642	1,423	2,820	4,815	12,223	( <sup>2</sup> )	780	(D)	(D)
2731	Books; publishing & printing	41	5	379	1,365	94	188	231	3,152	5,778	130	473	2,101
2732	Book printing.....	56	21	1,577	6,277	1,328	2,632	4,584	9,071	13,914	650	(D)	(D)
2741	Miscellaneous publishing..	38	5	932	3,551	232	469	696	5,207	6,806	100	(D)	(D)
2751	Commercial printing.....	1,166	147	14,889	57,510	11,807	23,548	42,107	89,187	148,453	5,455	14,726	67,046
2761	Lithographing.....	232	56	4,886	20,767	3,947	7,684	15,069	33,415	55,874	3,092	2,344	11,001
2781	Bookbinding.....	36	9	772	2,177	692	1,359	1,765	3,316	4,268	126	(D)	(D)

See footnotes at end of table.

## MANUFACTURES—AREA STATISTICS

## South Atlantic

Table 2.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Code	Industry group and industry	1954										1947	
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
27	Printing and publishing—Continued												
279	Printing trade services...	193	38	2,454	11,151	1,926	3,859	8,388	15,901	( <sup>2</sup> )	735	1,660	10,149
2791	Typesetting.....	63	9	679	3,097	571	1,127	2,502	4,472	5,200	227	(D)	(D)
2792	Engraving and plate printing	48	10	662	2,310	543	1,149	1,613	3,417	4,562	233	402	1,758
2793	Photoengraving.....	69	13	882	4,561	636	1,249	3,414	6,494	7,876	215	759	5,715
2794	Electrotyping & stereotyping	13	5	227	1,180	168	325	852	1,511	1,873	55	(D)	(D)
28	Chemicals and products..	1,286	552	125,713	541,069	87,437	177,118	324,464	1,418,161	( <sup>2</sup> )	149,155	108,706	778,942
281	Inorganic chemicals.....	72	40	25,321	120,731	12,354	25,257	50,423	216,408	( <sup>2</sup> )	21,817	7,631	53,137
2819	Inorganic chemicals, nec....	62	30	20,839	101,088	8,791	18,004	36,201	161,328	243,450	11,301	(D)	(D)
2825	Synthetic fibers.....	23	23	35,134	149,732	25,937	50,868	97,219	472,967	775,150	41,503	(D)	(D)
2829	Organic chemicals, nec....	30	18	14,188	77,843	10,462	21,127	52,879	215,708	442,338	24,865	(D)	(D)
2834	Pharmaceutical preparations.....	107	23	2,271	9,622	1,498	2,734	3,761	33,666	49,870	782	(D)	(D)
284	Soap and related products..	111	20	2,626	11,221	1,734	3,196	6,029	47,766	( <sup>2</sup> )	959	2,389	45,874
285	Paints and allied products	130	46	4,898	21,405	3,245	6,645	11,683	73,808	( <sup>2</sup> )	5,238	4,726	35,325
2851	Paints and varnishes.....	113	37	2,671	10,702	1,685	3,542	5,025	26,256	62,742	(D)	(D)	(D)
286	Gum and wood chemicals....	36	15	2,338	8,519	1,947	4,075	6,407	25,505	( <sup>2</sup> )	3,249	(D)	(D)
287	Fertilizers.....	317	181	13,793	44,642	10,928	23,493	31,158	94,512	( <sup>2</sup> )	20,779	16,322	87,593
2871	Fertilizers.....	95	85	8,231	28,734	6,745	14,896	21,461	62,563	183,620	18,197	9,948	57,531
2872	Fertilizers, mixing only....	222	96	5,562	15,908	4,182	8,597	9,696	31,949	129,205	2,582	6,374	30,062
288	Vegetable and animal oils..	150	96	5,522	15,758	4,489	10,280	10,845	32,017	( <sup>2</sup> )	4,918	6,415	39,762
2881	Cottonseed oil mills.....	71	54	2,749	6,962	2,256	5,103	4,705	11,033	68,129	2,224	2,904	(D)
2884	Vegetable oil mills, nec....	13	8	670	1,945	559	1,160	1,413	4,755	29,077	(D)	1,246	7,280
2886	Grease and tallow.....	48	21	1,150	3,985	871	2,178	2,447	9,088	18,102	(D)	751	5,143
289	Chemical products, nec....	262	60	4,850	18,161	3,157	6,289	8,915	49,628	( <sup>2</sup> )	2,793	3,386	24,070
2891	Printing ink.....	18	2	222	1,095	147	298	488	2,161	4,689	39	(D)	(D)
2893	Toilet preparations.....	33	7	672	2,286	334	632	773	6,769	9,767	121	477	2,587
2896	Compressed & liquefied gases	46	16	912	3,268	524	1,143	1,839	8,042	11,155	1,129	810	5,649
2897	Insecticides and fungicides..	59	20	1,533	5,007	1,169	2,327	3,070	14,672	45,227	618	798	4,147
2899	Chemical products, nec.....	85	12	1,298	5,741	835	1,600	2,327	16,307	35,831	819	969	9,296
29	Petroleum and coal products.....	105	44	7,292	33,818	5,841	11,371	24,796	76,630	( <sup>2</sup> )	23,211	5,907	48,041
2911	Petroleum refining.....	17	11	2,606	13,258	1,768	3,438	8,516	29,298	159,261	(D)	2,309	22,633
295	Paving & roofing materials	65	18	1,467	6,038	1,185	2,402	4,124	13,779	( <sup>2</sup> )	1,620	848	7,740
2951	Paving mixtures and blocks..	41	7	599	2,666	484	980	1,695	5,916	17,523	595	204	1,822
2952	Roofing felts and coatings..	24	11	867	3,372	700	1,421	2,429	7,863	23,869	1,025	644	5,918
30	Rubber products.....	93	35	10,835	37,724	8,792	17,334	27,533	74,843	( <sup>2</sup> )	3,487	(D)	(D)
31	Leather & leather goods..	168	34	15,099	40,958	13,535	25,610	33,342	62,827	( <sup>2</sup> )	2,257	17,686	70,128
3111	Leather tanning and finishing.....	27	20	4,046	13,524	3,604	7,188	11,165	20,032	54,272	383	(D)	(D)
314	Footwear, except rubber...	44	24	8,596	20,517	7,754	14,398	16,873	30,905	( <sup>2</sup> )	1,568	8,808	22,098
317	Purses and small leather goods.....	26	8	375	791	333	590	634	1,493	( <sup>2</sup> )	40	(D)	(D)
3171	Handbags and purses.....	26	8	327	682	291	511	560	1,321	2,294	37	(D)	(D)
319	Miscellaneous leather goods.....	28	2	553	1,542	515	1,023	1,238	2,264	( <sup>2</sup> )	7	687	1,340
3192	Saddlery, harness, and whips	11	4	389	1,107	364	706	902	1,374	3,364	(D)	(D)	(D)
3199	Leather goods, nec.....	17	4	164	434	150	316	336	890	1,727	(D)	(D)	(D)
32	Stone, clay, and glass products.....	1,477	460	61,378	205,023	53,274	104,005	162,564	385,248	( <sup>2</sup> )	28,511	60,530	259,044
3221	Glass containers.....	15	14	7,540	30,361	6,661	13,626	25,472	55,861	97,458	1,776	(D)	(D)
3231	Products of purchased glass	72	19	2,226	6,234	1,992	3,945	4,738	11,054	28,552	448	1,712	6,647
3241	Cement, hydraulic.....	14	14	2,923	11,004	2,569	5,267	9,194	38,109	59,914	6,025	2,073	12,223
325	Structural clay products..	149	103	9,306	28,156	8,231	17,497	21,524	46,579	( <sup>2</sup> )	5,015	8,895	32,673
3251	Brick and hollow tile.....	109	83	6,187	17,788	5,414	11,629	13,450	30,293	44,646	3,617	5,771	19,749
326	Pottery & related products	59	16	6,486	19,575	5,941	9,219	15,769	24,588	( <sup>2</sup> )	514	9,821	31,575
327	Concrete and plaster products.....	886	189	13,918	42,377	11,137	23,298	29,487	88,711	( <sup>2</sup> )	8,676	10,546	41,908
3271	Concrete products.....	851	173	11,964	35,222	9,464	19,524	23,642	65,761	130,289	7,025	8,833	31,871

See footnotes at end of table.



## GEOGRAPHIC DIVISIONS

10-45

## South Atlantic

Table 2.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Code	Industry group and industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manu- facture (\$1,000)	Value of ship- ments (\$1,000)	Capital ex- penditures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
32	Stone, clay, and glass products—Continued												
329	Nonmet. mineral prod., nec.	96	35	4,998	15,780	4,334	8,283	12,347	37,685	( <sup>2</sup> )	2,472	(D)	(D)
3293	Gaskets and asbestos in- sulations.....	9	1	363	1,268	283	590	849	2,008	3,998	(D)	(D)	(D)
3295	Minerals: ground or treated	44	14	993	3,561	817	1,758	2,663	8,170	16,234	1,005	(D)	(D)
33	Primary metal industries	251	117	64,447	292,481	54,669	107,315	233,926	639,486	( <sup>2</sup> )	47,722	64,737	322,532
331	Blast furnaces and steel mills.....	19	19	45,477	212,084	39,276	76,757	174,782	486,106	( <sup>2</sup> )	35,193	(D)	(D)
332	Iron and steel foundries..	127	60	7,720	26,954	6,880	13,375	22,482	42,079	( <sup>2</sup> )	2,857	9,133	33,424
3321	Gray-iron foundries.....	115	51	5,780	19,470	5,189	10,286	16,394	31,384	53,484	2,291	6,991	(D)
333	Primary nonferrous metals.	4	4	3,032	14,267	2,185	4,263	9,082	31,072	( <sup>2</sup> )	3,688	(D)	(D)
3341	Secondary nonferrous metals.....	15	6	582	2,401	471	974	1,610	4,962	19,434	174	261	1,860
335	Nonferrous rolling and drawing.....	17	13	5,024	24,155	3,867	7,993	17,085	51,010	( <sup>2</sup> )	4,090	(D)	(D)
3361	Nonferrous foundries.....	56	9	723	2,390	629	1,211	1,846	4,280	8,384	(D)	1,013	4,162
339	Primary metal industries, nec.....	13	5	1,887	10,228	1,358	2,740	7,037	19,976	( <sup>2</sup> )	(D)	(D)	(D)
34	Fabricated metal prod- ucts.....	1,142	378	53,194	200,312	43,236	85,907	146,527	376,930	( <sup>2</sup> )	20,281	45,175	207,130
3411	Tin cans and other tinware	20	19	6,421	28,091	5,538	11,698	23,130	54,509	169,681	4,592	6,719	32,619
342	Cutlery, tools, and hard- ware.....	60	19	3,571	11,526	3,049	5,920	8,860	20,084	( <sup>2</sup> )	698	(D)	(D)
3423	Hand tools, nec.....	11	3	1,059	3,696	925	1,767	3,045	5,764	9,282	170	1,156	4,177
3429	Hardware, nec.....	35	11	1,556	4,565	1,317	2,576	3,321	7,792	11,659	375	(D)	(D)
343	Heating & plumbing equip..	53	21	4,125	15,249	3,477	6,841	12,110	32,511	( <sup>2</sup> )	1,498	5,791	24,266
344	Structural metal products.	669	215	21,424	82,468	16,170	32,990	54,329	137,524	( <sup>2</sup> )	7,074	15,207	74,716
3441	Structural & ornamental work	275	94	9,321	38,516	6,816	13,877	23,470	61,000	131,897	2,518	6,235	31,695
3442	Metal doors, sash, and trim.	98	37	3,858	12,605	2,924	6,056	8,454	25,355	55,867	1,808	712	3,005
3443	Boiler shop products.....	64	35	3,906	15,156	3,236	6,875	11,702	24,586	47,325	1,076	3,788	18,171
3444	Sheet metal work.....	232	49	4,338	16,190	3,192	6,180	10,702	26,582	55,727	1,670	4,472	21,845
346	Metal stamping & coating..	141	43	8,920	31,319	7,672	14,634	24,561	56,853	( <sup>2</sup> )	2,671	9,373	38,595
3463	Metal stampings.....	58	29	7,312	26,293	6,310	12,146	20,790	48,997	96,288	2,279	7,287	31,197
3468	Plating and polishing.....	62	9	616	1,971	524	996	1,425	3,614	4,991	202	(D)	(D)
3471	Lighting fixtures.....	48	7	801	2,440	651	1,268	1,741	6,079	14,040	167	(D)	(D)
348	Fabricated wire products..	60	23	2,874	9,452	2,411	4,050	6,122	25,467	( <sup>2</sup> )	1,038	2,028	10,787
349	Metal products, nec.....	91	32	5,055	19,765	4,266	8,503	15,670	43,901	( <sup>2</sup> )	2,539	3,016	14,681
3491	Metal barrels, drums, and pails.....	7	7	1,207	5,684	954	1,915	4,152	8,325	20,119	(D)	(D)	(D)
3494	Bolts, nuts, washers, and rivets.....	6	4	668	2,157	554	1,139	1,724	5,020	9,077	640	(D)	(D)
3495	Screw machine products.....	18	3	260	798	226	408	661	1,419	2,742	86	(D)	(D)
3499	Fabricated metal prod., nec.	53	14	1,085	3,776	896	1,820	2,958	11,948	21,079	439	(D)	(D)
35	Machinery, except elec- trical.....	1,043	329	39,390	155,820	30,104	61,146	100,862	243,161	( <sup>2</sup> )	17,528	31,231	134,846
352	Tractors & farm machinery.	94	32	3,542	11,427	2,914	5,906	8,557	22,474	( <sup>2</sup> )	1,327	2,989	11,013
353	Construction and mining machinery.....	42	20	2,463	14,976	1,757	3,440	6,054	15,842	( <sup>2</sup> )	693	3,173	14,213
354	Metalworking machinery...	101	17	4,232	17,135	2,970	5,853	10,242	28,132	( <sup>2</sup> )	1,397	(D)	(D)
3544	Special dies and tools.....	77	9	768	3,363	644	1,427	2,589	4,952	6,871	401	(NA)	(NA)
355	Special-industry machin- ery, nec.....	280	117	14,352	55,640	11,074	22,644	38,104	84,815	( <sup>2</sup> )	3,945	11,055	53,371
3551	Food-products machinery....	45	20	3,155	13,018	2,247	4,557	8,931	20,921	31,096	579	2,913	13,162
3552	Textile machinery.....	151	64	5,950	19,876	4,849	10,165	14,238	31,932	53,670	1,396	2,990	15,060
3553	Woodworking machinery.....	15	3	296	1,205	222	467	725	1,589	2,667	51	848	4,371
3554	Paper-industries machinery..	7	4	1,091	5,322	855	1,749	3,733	5,844	10,156	499	1,414	7,475
3555	Printing-trades machinery...	10	1	126	512	101	210	408	730	1,034	39	126	650
3559	Special-industry machinery, nec.....	52	25	3,732	15,705	2,799	5,494	10,067	23,797	43,153	1,379	2,764	12,653

See footnotes at end of table.

## MANUFACTURES—AREA STATISTICS

## South Atlantic

Table 2.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Code	Industry group and industry	1954										1947	
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
35	Machinery, except electrical—Continued												
356	General industrial machinery.....	104	40	3,510	13,674	2,630	5,312	8,455	21,658	( <sup>2</sup> )	793	4,183	18,802
3561	Pumps and compressors.....	19	5	446	1,763	308	618	979	3,314	6,614	(D)	(D)	(D)
3563	Conveyors.....	11	6	313	1,216	216	443	712	2,079	4,656	59	(D)	(D)
3565	Industrial trucks & tractors	18	5	383	1,131	307	588	809	1,934	3,667	124	529	1,934
3569	General industrial machinery, nec.....	14	6	607	2,688	414	826	1,455	3,501	7,216	86	1,375	6,438
357	Office and store machines.	20	6	703	3,098	553	1,093	2,208	5,567	( <sup>2</sup> )	1,420	(D)	(D)
358	Service and household machines.....	48	22	3,344	12,313	2,319	4,638	7,048	21,914	( <sup>2</sup> )	(D)	2,344	8,870
3585	Refrigeration machinery.....	32	17	2,211	7,875	1,530	3,086	4,433	12,593	( <sup>2</sup> )	(D)	(D)	(D)
3591	Valves and fittings, except plumbing.....	8	6	714	2,683	602	1,265	2,116	5,510	9,632	126	501	1,234
3599	Machine shops.....	301	57	5,175	18,888	4,215	8,748	13,923	27,522	41,193	1,875	(D)	(D)
36	Electrical machinery....	229	99	33,094	128,825	22,875	44,654	76,231	240,027	( <sup>2</sup> )	32,606	20,866	94,726
361	Electrical industrial apparatus.....	51	25	5,551	20,832	4,432	9,050	14,881	41,078	( <sup>2</sup> )	18,291	4,334	23,356
3611	Wiring devices and supplies.	8	4	743	2,758	671	1,331	2,355	9,526	24,361	127	(D)	(D)
3616	Electrical control apparatus	20	9	1,831	6,404	1,381	2,798	4,023	10,680	20,519	4,024	(D)	(D)
3621	Electrical appliances.....	24	5	712	2,282	559	1,068	1,567	8,219	15,370	(D)	(D)	(D)
366	Communication equipment...	97	49	23,140	92,051	14,894	28,754	49,744	158,327	( <sup>2</sup> )	12,506	(D)	(D)
369	Electrical products, nec..	50	17	2,473	9,243	1,903	3,637	6,264	17,894	( <sup>2</sup> )	1,010	(D)	(D)
37	Transportation equipment	465	133	97,583	452,574	77,329	156,703	331,203	800,181	( <sup>2</sup> )	22,905	63,631	286,812
3715	Truck trailers.....	8	6	763	2,879	687	1,406	2,154	3,961	11,160	124	(D)	(D)
372	Aircraft and parts.....	26	13	47,785	223,234	33,956	67,283	140,955	348,501	( <sup>2</sup> )	11,107	(D)	(D)
373	Ships and boats.....	310	75	31,140	141,658	27,509	55,838	119,755	195,439	( <sup>2</sup> )	4,929	34,512	141,202
3731	Ship building and repairing.	60	40	28,012	132,067	24,750	50,547	111,941	181,860	286,255	4,192	31,345	129,372
3732	Boat building and repairing.	250	35	3,128	9,591	2,758	5,290	7,813	13,579	25,564	737	3,167	11,830
38	Instruments and related products.....	135	27	5,121	17,606	3,963	7,762	11,407	27,147	( <sup>2</sup> )	956	2,949	9,585
384	Medical equip. & supplies.	66	6	974	2,711	752	1,416	1,610	4,909	( <sup>2</sup> )	154	638	2,384
3842	Surgical appliances and supplies.....	56	4	537	1,374	428	795	943	2,172	3,275	125	(D)	(D)
39	Miscellaneous manufactures <sup>5</sup> .....	815	172	27,262	91,131	21,207	42,022	59,238	148,732	( <sup>2</sup> )	7,637	15,512	50,461
391	Jewelry and silverware....	27	6	528	1,737	426	895	1,246	2,795	( <sup>2</sup> )	(D)	(D)	(D)
394	Toys and sporting goods...	109	27	3,238	8,504	2,925	5,563	7,107	13,771	( <sup>2</sup> )	395	2,623	6,539
3949	Sporting and athletic goods.	62	10	869	2,065	774	1,449	1,554	3,537	6,173	139	967	2,389
395	Office supplies.....	48	9	1,684	5,128	1,356	2,870	3,161	11,251	( <sup>2</sup> )	546	1,858	6,038
3953	Hand stamps and stencils....	38	2	256	828	185	376	567	1,293	1,942	54	(D)	(D)
396	Costume jewelry and notions.....	66	15	1,591	3,583	1,462	2,843	3,041	7,343	( <sup>2</sup> )	185	(D)	(D)
398 399	Miscellaneous manufactures <sup>5</sup>	455	82	15,210	55,038	11,027	21,647	32,794	87,681	( <sup>2</sup> )	(D)	6,655	22,715
3981	Brooms and brushes.....	80	16	1,809	4,803	1,536	2,799	3,426	7,704	16,444	212	1,824	(D)
3988	Morticians' goods.....	68	23	1,961	5,235	1,660	3,265	3,756	8,725	16,485	170	1,576	4,676
3993	Signs and advertising displays.....	213	15	1,744	6,326	1,371	2,776	4,347	10,115	15,677	489	1,308	5,093
19--	Ordinance and accessories...	18	15	7,640	33,441	4,611	9,409	17,228	52,919	( <sup>2</sup> )	1,369	(D)	(D)

See footnotes on next page.



## GEOGRAPHIC DIVISIONS

10-47

## South Atlantic

Note: Detailed figures may not add to total because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industries (4-digit) and industry groups (3-digit) are not shown. Industries and industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "all industries" line.

<sup>2</sup>The total value of shipments figures for industry groups and a few individual industries have not been published due to the extensive and unmeasurable duplication arising from shipments from one establishment to another in the same industry classification. (See Introduction.)

<sup>3</sup>The 1954 and 1947 "all industries" totals are not strictly comparable because of differences in scope between the two years in major groups 20 and 24 (see footnote 4).

<sup>4</sup>Comparable data for major groups 20 and 24 are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude establishments in S.I.C. Industry 2411, Logging Camps and Contractors, which are included in the scope of the 1954 Census; the 1947 Census also excludes plants processing and distributing fluid milk which in 1954 were classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
20	Food and kindred products, except subgroup 202, Dairy products.....	157,765	1,024,111	135,788	657,604
24	Lumber and wood products, except Industry 2411, Logging camps and contractors.....	120,464	387,774	139,700	383,814

<sup>5</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." Establishments which are Government-owned and operated are not included.

## MANUFACTURES—AREA STATISTICS

## South Atlantic

Table 3.—DISTRIBUTION OF OPERATING MANUFACTURING ESTABLISHMENTS BY EMPLOYMENT SIZE GROUPS AND MAJOR INDUSTRY GROUPS, FOR THE DIVISION: 1954

20 Food and kindred products	26 Pulp paper and products	32 Stone, clay, and glass products	38 Instruments and related products
21 Tobacco manufactures	27 Printing and publishing	33 Primary metal industries	39 Miscellaneous manufactures (includes Group 19)
22 Textile mill products	28 Chemicals and products	34 Fabricated metal products	Ordnance and accessories)
23 Apparel and related products	29 Petroleum and coal products	35 Machinery, except electrical	
24 Lumber and wood products	30 Rubber products	36 Electrical machinery	
25 Furniture and fixtures	31 Leather and leather goods products	37 Transportation equipment	

Size group	Number of estab- lishments	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
South Atlantic Division, total.....	30,530	4,813	163	1,873	1,571	10,308	1,330	393	2,870	1,286	105	93	168	1,477	251	1,142	1,043	229	465	135	815
1 to 4 employees.....	11,070	1,253	30	142	328	5,075	453	38	1,370	329	24	30	43	468	51	380	355	79	195	65	362
5 to 9 employees.....	5,517	911	5	99	154	2,225	225	27	611	190	27	19	20	297	42	205	179	28	67	24	162
10 to 19 employees.....	4,515	859	3	144	159	1,610	181	36	385	215	10	9	21	252	41	179	180	23	70	19	119
20 to 49 employees.....	4,047	905	13	257	263	885	209	83	294	292	18	11	20	222	48	179	173	32	48	9	86
50 to 99 employees.....	2,143	432	28	282	257	318	109	58	101	128	9	10	15	120	19	81	76	20	30	8	42
100 to 249 employees.....	1,839	345	44	365	271	160	86	79	68	72	13	5	29	75	18	75	53	22	27	5	27
250 to 499 employees.....	789	75	20	295	104	32	47	43	29	19	...	2	15	25	12	24	18	13	7	2	7
500 to 999 employees.....	381	24	6	197	30	3	15	17	6	14	2	3	4	11	8	15	5	5	6	3	7
1,000 to 2,499 employees.....	196	9	13	85	5	...	5	12	6	16	2	4	1	7	10	3	4	5	7	...	2
2,500 employees and over.....	33	...	1	7	...	...	...	...	...	11	...	...	...	...	2	1	...	2	8	...	1



## GEOGRAPHIC DIVISIONS

10-49

## East South Central

Table 1A.—MANUFACTURING EMPLOYMENT AT OPERATING ESTABLISHMENTS AND CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARIES FOR THE DIVISION: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Year <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	(Number)	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
East South Central Division:						
1954.....	729,947	2,366,908	714,758	2,288,840	15,189	78,068
1953 <sup>2</sup> .....	747,148	2,372,074	737,892	2,329,018	9,256	43,056
1952 <sup>2</sup> .....	699,863	2,072,078	689,973	2,038,558	9,890	33,520
1951 <sup>2</sup> .....	684,156	1,888,841	674,266	1,855,321	9,890	33,520
1950 <sup>2</sup> .....	649,792	1,647,324	640,233	1,617,376	9,559	29,948
1949 <sup>2</sup> .....	603,165	1,435,192	594,336	1,407,008	8,829	28,184

Note: East South Central Division consists of Kentucky, Tennessee, Alabama and Mississippi.

<sup>1</sup>Employment data for administrative offices and auxiliaries are not available for the years prior to 1949.<sup>2</sup>The employment figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period. The employment figures for administrative and auxiliary units were compiled chiefly from Bureau of Old-Age and Survivors Insurance records and are not strictly comparable with the figures for these units that were collected by the Bureau of the Census for the year 1954.<sup>3</sup>The 1951 data are shown for 1952 since Auxiliary and Administrative unit data were not collected in 1952.

Table 1B.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS IN THE DIVISION: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Division and year	Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)	Horse power of prime movers and electric motors <sup>1</sup> (1,000 hp)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
East South Central:									
1954 <sup>2</sup> .....	12,854	714,758	2,288,840	601,493	1,166,807	1,113,827	4,701,863	395,995	6,874
1953 <sup>3</sup> .....		737,892	2,329,018	632,278	1,237,120	1,808,919	4,666,926	388,260	
1952 <sup>3</sup> .....		689,973	2,038,558	592,577	1,152,264	1,576,129	4,038,423	309,568	
1951 <sup>3</sup> .....	(NA)	674,266	1,855,321	585,640	1,128,130	1,460,885	3,911,625	310,505	(NA)
1950 <sup>3</sup> .....		640,233	1,617,376	556,895	1,079,780	1,283,881	3,452,683	(NA)	
1949 <sup>3</sup> .....		594,336	1,407,008	516,070	1,004,131	1,109,491	2,839,430		
1947.....	10,911	635,445	1,363,617	559,827		1,096,474	2,884,391	256,002	
1939.....	7,024	410,008	389,733	355,096		288,656	823,101		2,379
1929.....	9,860	416,905	440,520	377,870	(NA)	348,734	924,428		1,913
1919.....	14,094	364,878	367,639	327,352		296,470	660,223	(NA)	
1909.....	15,381	288,257	131,200	261,772		102,192	294,325		(NA)
1899.....	10,058	188,412	66,388	177,208		56,004	148,579		

NA Not available.

<sup>1</sup>Driven by purchased electricity.<sup>2</sup>The 1954 figures include data for establishments engaged in the processing and distribution of fluid milk, Industry Group 202, Dairy Products. These establishments were not included in the figures for the Annual Survey years 1949-1953 or earlier Census years. In addition, the 1954 Census and Annual Survey years include data for Logging Camps and Contractors, Industry 2411, which were not included within the scope of the 1947 Census and earlier Censuses. See footnotes to Table 2 for comparable 1954 and 1947 totals. There were also a number of changes in the definition of manufacturing industries during earlier Census years that affect the comparability of the historical series. Among the more important of these were: figures for 1935 and later years exclude data for "railroad repair shops" and "manufactured gas" which were included in 1899-1933 figures; the minimum size of establishments included for 1954 and 1947 was one employee, for 1939-1921 manufacturing establishments reporting value of shipments of \$5,000 or more were within scope whereas for 1919 and earlier years the cut-off was \$500. (This change in procedure has not appreciably affected the comparability of the historical data except for the figures on number of establishments.)<sup>3</sup>The employment and payroll figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period.

## MANUFACTURES—AREA STATISTICS

## East South Central

Table 2.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Code	Industry group and industry	1954										1947	
		Establishments, number		All employees		Production workers			Value added by manu- facture (\$1,000)	Value of ship- ments (\$1,000)	Capital ex- penditures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
10	All industries, total <sup>1</sup>	12,854	4,041	714,899	2,289,152	601,627	1,167,069	1,714,102	4,702,308	( <sup>2</sup> )	295,995	3635,445	32,884,391
20	Food & kindred products.	2,302	822	80,621	261,987	54,014	111,536	150,858	642,297	( <sup>2</sup> )	34,972	( <sup>4</sup> )	( <sup>4</sup> )
201	Meat products.....	261	116	13,323	42,839	10,462	21,528	30,243	74,668	( <sup>2</sup> )	5,767	8,640	41,371
2011	Meat packing, plants.....	142	69	9,174	34,373	6,952	15,170	23,996	53,448	( <sup>2</sup> )	4,639	6,712	32,535
2013	Prepared meats.....	46	9	732	2,143	536	1,073	1,339	9,184	( <sup>2</sup> )	323	(NA)	(NA)
2015	Poultry dressing, plants....	73	38	3,416	6,323	2,973	5,285	4,907	12,036	88,760	804	353	1,477
202	Dairy products.....	503	205	15,073	49,546	8,423	19,470	23,818	113,257	( <sup>2</sup> )	8,818	( <sup>4</sup> )	( <sup>4</sup> )
2021	Creamery butter.....	16	11	978	2,920	719	1,452	1,804	5,264	29,691	417	( <sup>4</sup> )	( <sup>4</sup> )
2022	Natural cheese.....	43	22	1,020	2,987	821	1,866	2,124	5,648	35,785	398	( <sup>4</sup> )	( <sup>4</sup> )
2023	Concentrated milk.....	27	12	1,242	4,482	1,017	2,365	3,504	22,025	75,021	715	( <sup>4</sup> )	( <sup>4</sup> )
2024	Ice cream and ices.....	103	34	2,022	6,062	1,183	2,511	2,957	16,115	34,850	1,562	( <sup>4</sup> )	( <sup>4</sup> )
2027	Fluid milk & other products.	265	121	9,267	31,574	4,296	10,480	12,469	61,091	184,733	5,538	( <sup>4</sup> )	( <sup>4</sup> )
2033	Canned fruits and vegeta- bles.....	37	22	2,172	4,900	1,945	3,593	3,703	11,236	35,564	560	2,119	6,520
2035	Pickles and sauces.....	18	8	835	2,395	694	1,487	1,562	4,317	12,327	106	771	4,250
2036	Packaged seafood.....	11	2	151	302	131	177	163	727	2,179	(D)	518	1,363
2037	Frozen fruits & vegetables	15	6	495	843	410	562	540	1,397	4,307	84		
204	Grain mill products.....	303	69	7,288	23,986	5,164	11,725	15,203	65,428	( <sup>2</sup> )	3,201	7,336	50,006
2041	Flour and meal.....	120	20	2,530	8,601	1,733	3,943	5,350	23,743	108,376	1,340	2,442	18,437
2042	Prepared animal feeds.....	175	47	4,570	14,878	3,290	7,470	9,520	29,926	213,068	1,682	4,173	27,345
205	Bakery products.....	243	117	12,466	41,493	7,566	15,286	20,096	70,518	( <sup>2</sup> )	3,918	11,504	48,450
2051	Bread and related products..	225	104	11,383	38,694	6,791	13,896	18,503	66,398	139,768	3,677	9,734	41,554
2052	Biscuit and crackers.....	18	13	1,083	2,799	775	1,389	1,592	4,120	10,126	241	1,770	6,896
208	Beverages.....	446	184	18,793	67,772	11,954	23,810	39,663	219,395	( <sup>2</sup> )	8,137	19,545	258,169
2081	Bottled soft drinks.....	394	134	8,431	23,745	3,760	7,490	7,535	48,144	93,310	3,075	7,436	38,044
2082	Beer and ale.....	6	6	2,083	10,468	1,469	2,958	6,501	31,414	46,204	1,190	(D)	(D)
209	Miscellaneous foods.....	385	67	7,063	22,055	4,658	9,466	11,487	70,758	( <sup>2</sup> )	3,892	8,440	51,969
2092	Shortening and cooking oils.	8	7	1,550	6,357	1,130	2,559	3,796	16,927	151,976	1,729	1,066	16,189
2095	Flavorings.....	14	4	202	631	151	300	418	13,489	26,714	389	175	3,310
2097	Manufactured ice.....	252	23	2,234	5,175	1,241	2,333	2,226	8,470	11,012	716	4,813	20,426
2099	Food preparations, nec.....	106	30	2,789	8,795	1,934	3,828	4,457	29,078	113,720	967	2,082	10,614
21	Tobacco manufactures....	57	48	12,391	37,429	11,525	22,964	32,329	180,858	( <sup>2</sup> )	7,595	(D)	(D)
2111	Cigarettes.....	4	4	6,223	23,030	5,861	12,186	20,574	142,672	327,536	5,533	(D)	(D)
2141	Tobacco stemming and re- drying.....	34	28	3,152	7,487	2,863	5,712	5,925	11,834	203,908	1,500	4,105	9,997
22	Textile mill products...	321	272	88,715	216,983	83,520	154,580	190,260	340,936	( <sup>2</sup> )	17,396	97,002	368,172
221	Woolen and worsted manu- facture.....	9	8	1,468	4,201	1,311	2,633	3,239	6,901	( <sup>2</sup> )	140	(D)	(D)
2212	Yarn mills, wool, except carpet.....	3	3	202	579	182	406	461	715	1,383	5	(D)	(D)
2241	Narrow fabric mills.....	12	10	1,025	2,820	817	1,674	1,899	4,367	8,412	163	726	2,279
225	Knitting mills.....	160	130	31,267	72,796	29,386	54,080	63,974	111,163	( <sup>2</sup> )	5,044	29,072	85,143
2251	Full-fashioned hosiery mills	38	33	6,905	20,306	6,333	11,534	17,626	31,044	( <sup>2</sup> )	1,272	(D)	(D)
2256	Knit fabric mills.....	9	7	1,984	5,124	1,876	3,749	4,583	11,026	31,050	365	(U)	(D)
229	Miscellaneous textile goods.....	24	17	2,608	6,944	2,402	4,664	5,832	16,034	( <sup>2</sup> )	720	2,506	9,817
2293	Padding & upholstery filling	5	3	168	558	150	396	457	1,551	4,136	37	(D)	(D)
2298	Cordage and twine.....	10	6	1,678	4,130	1,584	2,882	3,609	9,763	18,579	351	(D)	(D)
23	Apparel & related prod- ucts.....	518	375	82,028	158,300	77,468	141,518	137,586	256,962	( <sup>2</sup> )	5,230	50,779	135,152
231	Men's and boys' suits and coats.....	19	18	6,588	15,797	6,072	10,711	13,148	21,655	( <sup>2</sup> )	226	6,861	23,238
232	Men's & boys' furnishings.	259	237	56,363	103,670	53,680	98,613	91,793	163,751	( <sup>2</sup> )	3,178	33,490	78,952
2321	Men's dress shirts and nightwear.....	81	78	21,311	37,674	20,440	39,532	33,897	56,848	114,494	1,074	10,015	21,215
2327	Separate trousers.....	45	40	10,116	20,179	9,672	17,983	17,698	31,310	63,755	622	5,070	11,687
2328	Work shirts.....	26	24	5,137	8,385	5,009	8,535	7,797	12,541	27,792	122	7,202	(D)
2329	Men's & boys' clothing, nec.	81	76	15,702	28,241	14,783	26,010	24,732	48,079	147,231	858	8,786	19,467
233	Women's and misses' outer- wear.....	45	30	5,348	11,022	4,998	9,118	9,207	17,686	( <sup>2</sup> )	284	2,459	6,547
2333	Dresses, unit price.....	6	2	175	403	158	310	291	712	1,400	48	499	1,391
2334	Dresses, dozen price.....	18	14	2,194	4,385	2,014	3,734	3,472	7,150	12,137	120	1,120	2,151
2337	Women's suits, coats, and skirts.....	11	7	2,111	4,539	2,029	3,610	3,979	7,685	15,534	27	697	2,651
2339	Women's outerwear, nec.....	5	4	734	1,362	715	1,284	1,257	1,641	1,737	45	(D)	(D)

See footnotes at end of table.



## GEOGRAPHIC DIVISIONS

10-51

## East South Central

Table 2.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Code	Industry group and industry	1954									1947		
		Establish- ments, number		All employees		Production workers			Value added by manu- facture (\$1,000)	Value of ship- ments (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
23	Apparel and related products—Continued												
234	Women's undergarments.....	25	24	4,438	9,088	4,161	7,524	8,157	20,706	( <sup>2</sup> )	431	625	2,448
236	Children's outerwear.....	16	11	1,175	2,025	1,122	1,711	1,698	3,083	( <sup>2</sup> )	71	(D)	(D)
238	Miscellaneous apparel.....	18	14	2,814	4,927	2,684	4,834	4,418	8,346	( <sup>2</sup> )	514	1,334	3,124
2382	Fabric work gloves.....	11	10	2,208	3,835	2,111	3,839	3,432	6,554	14,224	326	(D)	(D)
2392	Housefurnishings, nec.....	40	19	2,969	6,102	2,777	5,237	5,155	12,848	47,330	165	18,194	60,364
2393	Textile bags.....	13	7	700	1,940	596	1,229	1,437	3,453	14,562	244	1,941	9,645
2394	Canvas products.....	38	5	799	1,572	704	1,270	1,228	2,549	4,863	77	1,209	(D)
2399	Textile products, nec.....	33	6	583	1,610	446	850	908	2,027	6,050	19	1,699	8,260
24	Lumber and wood products	4,883	791	76,290	155,767	70,234	131,496	130,182	259,825	( <sup>2</sup> )	13,567	( <sup>4</sup> )	( <sup>4</sup> )
2411	Logging camps and contrac- tors.....	1,074	22	5,234	7,680	4,629	7,287	6,691	14,960	31,866	1,716	( <sup>4</sup> )	( <sup>4</sup> )
242	Lumber and basic products.	3,352	569	51,570	99,200	48,259	89,970	85,395	158,282	( <sup>2</sup> )	8,319	77,405	214,481
2421	Sawmills and planing mills..	3,249	515	48,012	91,415	44,918	83,585	78,775	146,459	342,237	8,041	68,657	192,147
2422	Veneer mills.....	43	36	2,467	5,672	2,300	4,535	4,725	8,143	15,750	221	2,747	(D)
243	Millwork and related prod- ucts.....	169	58	5,885	17,315	5,018	10,496	12,625	29,253	( <sup>2</sup> )	812	4,553	18,954
2431	Millwork plants.....	150	42	4,053	12,486	3,363	7,076	8,820	20,629	53,249	616	2,689	8,596
2432	Plywood plants.....	15	13	1,333	3,297	1,266	2,756	2,903	5,167	10,925	149	1,660	8,355
2433	Prefabricated wood products.	4	3	499	1,532	388	663	901	3,456	8,809	46	204	1,003
244	Wooden containers.....	95	55	6,729	14,649	6,163	11,360	12,112	28,698	( <sup>2</sup> )	1,359	9,410	24,082
2441	Fruit and vegetable baskets.	12	5	325	489	314	521	453	593	924	5	(D)	(D)
2444	Wooden boxes.....	65	43	5,481	10,941	5,037	9,307	9,068	19,696	40,282	751	5,742	15,349
249	Miscellaneous wood prod- ucts.....	193	85	6,870	16,921	6,162	12,382	13,358	28,630	( <sup>2</sup> )	1,359	7,379	27,570
2491	Wood preserving.....	41	25	2,419	6,320	2,169	4,406	5,119	12,691	35,614	680	2,567	14,379
2493	Mirror and picture frames...	7	1	160	362	123	211	206	531	828	...	(D)	(D)
2499	Wood products, nec.....	145	59	4,290	10,238	3,871	7,764	8,032	15,408	31,480	679	4,798	(D)
25	Furniture and fixtures..	452	165	20,214	57,795	17,450	35,908	42,841	87,631	( <sup>2</sup> )	3,417	18,217	59,313
251	Household furniture.....	314	145	18,431	52,487	15,994	32,973	39,004	78,456	( <sup>2</sup> )	3,153	16,817	54,943
2511	Wood furniture, not uphstd.	158	76	11,034	30,749	9,721	19,679	23,081	44,602	85,351	1,774	11,008	32,821
2512	Uphstd. household furniture	75	44	4,656	12,651	4,054	8,730	9,991	19,821	47,102	660	3,219	10,835
2514	Metal household furniture...	23	12	1,202	4,187	996	2,074	2,975	6,575	15,092	507	700	(D)
252	Office furniture.....	7	2	107	334	90	173	252	354	( <sup>2</sup> )	36	(D)	(D)
2541	Partitions and fixtures...	44	8	743	2,527	597	1,279	1,836	3,913	7,647	91	491	1,799
256	Screens, shades, & blinds.	65	6	699	1,866	557	1,052	1,250	3,995	( <sup>2</sup> )	92	665	2,015
2561	Window and door screens.....	15	4	375	1,028	315	584	735	2,492	5,841	45	(D)	(D)
2563	Venetian blinds.....	47	2	309	815	231	445	497	1,454	3,261	46	221	777
26	Pulp, paper and products	133	102	25,821	103,053	22,037	46,670	81,527	234,465	( <sup>2</sup> )	40,121	16,087	116,864
261	Pulp, paper and board.....	43	42	16,613	71,237	14,162	30,512	57,135	182,228	( <sup>2</sup> )	34,993	10,752	89,605
2611	Pulp mills.....	21	20	7,051	31,220	5,955	12,975	24,906	89,446	181,673	18,099	4,283	47,689
2612	Paper and paper board mills.	14	14	5,438	24,817	4,599	10,100	19,633	56,404	165,331	15,666	3,763	23,416
2613	Building paper & board mills	8	8	4,124	15,200	3,608	7,437	12,596	36,377	67,371	1,228	2,706	18,500
2651	Envelopes.....	6	4	224	593	195	410	465	1,034	2,342	118	(D)	(D)
2661	Paper bags.....	12	9	2,925	10,616	2,569	5,420	8,960	16,750	51,851	2,254	2,047	12,754
267	Paperboard containers.....	53	39	4,351	14,117	3,625	7,245	9,737	22,001	( <sup>2</sup> )	2,286	2,512	11,394
2699	Paper and board products, nec.....	15	7	1,653	6,314	1,436	2,990	5,075	11,872	45,983	460	(D)	(D)
27	Printing and publishing.	1,145	183	23,941	95,008	16,166	32,490	61,547	159,411	( <sup>2</sup> )	7,378	20,854	102,083
2711	Newspapers.....	489	64	11,108	45,143	6,386	12,787	25,294	81,286	117,459	2,205	8,898	49,951
2721	Periodicals.....	50	10	1,136	3,924	357	677	1,296	8,823	14,296	191	1,897	10,668
273	Books.....	29	6	1,832	7,739	1,453	3,168	5,988	11,547	( <sup>2</sup> )	933	(D)	(D)
2731	Books; publishing & printing	15	1	149	445	48	95	123	1,235	1,881	(D)	242	1,039
2732	Book printing.....	14	5	1,683	7,294	1,405	3,072	5,865	10,312	14,194	(D)	(D)	(D)
2751	Commercial printing.....	375	64	6,806	26,985	5,593	11,059	20,857	40,526	63,636	2,705	6,356	25,926
2761	Lithographing.....	88	18	1,555	5,873	1,198	2,421	4,201	8,848	15,648	834	994	3,375
279	Printing trade services...	67	14	992	3,845	791	1,615	2,946	5,872	( <sup>2</sup> )	341	871	4,251
2791	Typesetting.....	19	5	258	1,055	206	401	893	1,511	1,627	51	173	(D)

See footnotes at end of table.

## MANUFACTURES—AREA STATISTICS

## East South Central

Table 2.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

1954	Industry group and industry	1954										1947	
		Establishment, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
279	Printing and publishing—Continued												
279	Printing trade services—Continued												
2799	Engraving and plate printing	21	3	314	897	268	655	663	1,237	2,043	(D)	317	1,178
2799	Photoengraving.....	23	4	288	1,325	214	435	1,004	2,209	2,745	153	206	1,490
2794	Electrotyping & stereotyping	5	2	127	564	98	218	381	910	1,149	(D)	(D)	(D)
28	Chemicals and products..	515	273	65,328	288,814	47,235	96,956	183,758	730,644	( <sup>2</sup> )	72,194	45,975	291,949
281	Inorganic chemicals.....	29	23	17,548	86,145	11,815	24,491	53,346	222,815	( <sup>2</sup> )	24,028	5,201	29,102
2819	Inorganic chemicals, nec....	22	17	16,743	82,661	11,207	23,251	50,769	209,868	392,157	21,310	(D)	(D)
2825	Synthetic fibers.....	9	9	16,468	72,326	12,624	24,459	48,886	164,693	323,158	17,651	(D)	(D)
2829	Organic chemicals, nec....	15	11	3,424	17,511	2,274	4,469	10,255	50,512	106,174	(D)	(D)	(D)
283	Drugs and medicines.....	31	9	2,066	8,607	1,480	2,938	4,236	27,884	42,021	478	(D)	(D)
2834	Pharmaceutical preparations.	31	9	2,066	8,607	1,480	2,938	4,236	27,884	42,021	(D)	(D)	(D)
284	Soap and related products.	26	5	358	1,271	187	355	526	2,668	( <sup>2</sup> )	181	336	1,234
285	Paints and allied products	46	26	2,367	10,627	1,359	2,946	4,782	26,763	( <sup>2</sup> )	1,153	2,268	20,441
2851	Paints and varnishes.....	42	24	2,113	9,577	1,231	2,673	4,371	25,137	56,119	1,014	2,123	(D)
286	Gum and wood chemicals....	16	11	2,272	8,599	1,895	4,072	6,393	18,946	( <sup>2</sup> )	2,429	(D)	(D)
287	Fertilizers.....	91	52	3,194	9,296	2,613	5,661	6,689	21,695	( <sup>2</sup> )	3,265	3,622	18,426
2871	Fertilizers.....	39	37	2,163	6,561	1,793	3,993	4,850	15,769	52,805	1,320	2,573	13,624
2872	Fertilizers, mixing only....	52	15	1,031	2,735	819	1,668	1,839	5,925	25,169	1,945	1,049	4,802
288	Vegetable and animal oils.	107	79	4,481	13,530	3,622	8,776	9,278	33,072	( <sup>2</sup> )	3,227	5,269	39,319
2881	Cottonseed oil mills.....	69	65	3,717	11,012	3,012	7,279	7,470	26,640	139,815	2,024	4,012	(D)
2886	Grease and tallow.....	23	5	296	850	229	581	603	1,761	3,211	(D)	130	515
289	Chemical products, nec....	120	28	2,257	8,224	1,588	3,161	4,875	19,452	( <sup>2</sup> )	2,431	1,317	8,913
2893	Toilet preparations.....	23	4	346	1,057	205	390	386	2,794	4,384	46	373	1,957
2896	Compressed & liquefied gases	28	9	867	3,636	638	1,331	2,614	5,694	26,269	1,277	482	3,799
2897	Insecticides & fungicides...	23	7	478	1,502	370	697	856	4,002	15,181	122	190	1,301
2899	Chemical products, nec.....	37	7	498	1,872	322	654	914	6,626	14,135	972	243	1,182
29	Petroleum and coal products.....	58	30	5,415	23,988	4,502	8,837	18,484	91,718	( <sup>2</sup> )	8,555	4,572	57,991
2911	Petroleum refining.....	15	13	1,709	8,335	1,258	2,544	5,720	22,220	161,883	(D)	1,205	21,470
295	Paving & roofing materials	27	6	803	3,096	659	1,361	2,326	8,135	( <sup>2</sup> )	644	569	4,621
2951	Paving mixtures and blocks..	18	1	219	793	183	360	573	1,712	4,721	277	185	1,126
2952	Roofing felts and coatings..	9	5	583	2,303	475	1,001	1,753	6,423	17,491	367	384	3,495
30	Rubber products.....	47	22	11,586	50,130	9,987	19,416	41,625	131,437	( <sup>2</sup> )	6,790	(D)	(D)
31	Leather & leather goods.	94	58	14,113	33,919	13,229	24,749	30,303	71,787	( <sup>2</sup> )	714	14,311	50,496
3111	Leather tanning and finishing.....	10	7	973	2,824	898	1,791	2,435	7,274	24,369	145	670	(D)
314	Footwear, except rubber...	42	35	11,789	27,842	11,144	20,798	25,303	58,378	( <sup>2</sup> )	483	12,508	44,352
319	Miscellaneous leather goods.....	14	3	176	415	149	292	307	826	( <sup>2</sup> )	12	474	1,234
3192	Saddlery, harness, and whips	10	3	158	395	133	268	290	786	1,553	(D)	473	(D)
32	Stone, clay, and glass products.....	603	202	22,899	73,865	19,774	38,830	57,618	157,902	( <sup>2</sup> )	14,191	20,640	89,625
3221	Glass containers.....	4	4	1,363	5,157	1,217	2,414	4,251	9,439	16,729	1,026	(D)	(D)
3231	Products of purchased glass.....	15	5	442	1,441	377	695	1,127	2,146	3,869	(D)	442	1,212
3241	Cement, hydraulic.....	17	17	3,228	12,878	2,750	5,769	10,165	44,747	67,752	4,642	3,240	22,946
325	Structural clay products..	83	65	4,976	14,326	4,531	8,711	11,904	23,527	( <sup>2</sup> )	3,398	5,447	18,063
3251	Brick and hollow tile.....	60	46	2,786	7,422	2,577	5,189	6,187	12,359	17,183	1,302	2,820	8,211
326	Pottery & related products	30	12	2,863	7,689	2,557	4,363	6,171	10,649	( <sup>2</sup> )	171	2,564	7,825
327	Concrete and plaster products.....	340	66	4,747	13,427	3,861	7,806	9,415	27,884	( <sup>2</sup> )	2,175	4,534	16,997
3271	Concrete products.....	324	53	3,945	10,935	3,162	6,291	7,445	23,036	41,348	1,947	3,624	13,309
3275	Mineral wool.....	5	5	309	973	265	581	751	2,038	3,995	59	348	(D)
329	Nonmet. mineral prod., nec.....	55	16	1,983	8,184	1,614	3,343	6,071	19,948	( <sup>2</sup> )	1,557	(D)	(D)
3295	Minerals: ground or treated.	33	10	938	3,979	775	1,602	2,904	11,589	18,020	903	(D)	(D)

See footnotes at end of table.



GEOGRAPHIC DIVISIONS  
East South Central

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Table 2.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Code	Industry group and industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manu- facture (\$1,000)	Value of ship- ments (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
33	Primary metal industries	174	122	55,546	235,100	47,869	93,188	190,031	470,016	(2)	63,251	62,474	287,693
331	Blast furnaces and steel mills.....	28	28	26,887	123,605	22,645	43,562	98,694	259,729	(2)	28,580	(D)	(D)
332	Iron and steel foundries..	93	68	16,920	61,335	15,470	30,126	52,350	101,259	(2)	7,940	17,781	73,108
3321	Gray-iron foundries.....	87	63	16,208	58,592	14,857	28,967	50,325	98,279	182,229	5,456	17,745	(D)
333	Primary nonferrous metals.	4	4	3,341	14,576	2,737	5,506	11,288	32,667	(2)	20,452	(D)	(D)
3341	Secondary nonferrous met- als.....	7	2	217	949	180	416	603	1,518	7,887	94	228	1,535
335	Nonferrous rolling and drawing.....	6	5	6,845	29,388	5,733	11,322	23,113	64,834	(2)	4,084	(D)	(D)
3361	Nonferrous foundries.....	25	5	363	1,078	308	600	837	1,426	2,966	(D)	727	1,607
339	Primary metal industries, nec.....	11	9	971	4,168	794	1,653	3,145	8,581	(2)	(D)	(D)	(D)
34	Fabricated metal prod- ucts.....	543	224	39,946	147,684	33,119	66,058	111,886	276,725	(2)	17,609	33,911	144,419
3411	Tin cans and other tinware	8	5	270	867	252	508	773	2,966	11,794	91	352	1,662
342	Cutlery, tools, and hard- ware.....	25	12	2,102	6,118	1,747	3,517	4,376	11,663	(2)	468	(D)	(D)
3423	Hand tools, nec.....	6	2	158	359	131	192	263	1,748	2,512	2	288	1,658
3429	Hardware, nec.....	12	8	1,709	4,677	1,440	2,890	3,424	7,855	16,936	447	(D)	(D)
343	Heating and plumbing equipment.....	40	33	12,223	43,357	10,548	20,438	35,023	79,935	(2)	5,849	16,183	62,358
344	Structural metal products.	306	111	16,337	64,355	13,002	25,920	46,123	118,688	(2)	6,123	12,587	58,162
3441	Structural & ornamental work	140	57	6,926	26,650	5,362	10,867	18,037	52,699	102,305	2,799	4,686	23,634
3442	Metal doors, sash, and trim.	26	12	913	3,179	762	1,420	2,075	6,913	12,447	318	376	1,625
3443	Boiler shop products.....	40	25	7,040	28,542	5,757	11,532	22,031	48,867	99,731	2,425	5,043	19,316
3444	Sheet-metal work.....	100	17	1,457	5,984	1,119	2,100	3,980	10,208	19,384	580	2,482	13,587
346	Metal stamping and coating	65	17	3,374	12,434	2,794	5,631	9,548	17,898	(2)	1,522	1,835	7,254
3463	Metal stampings.....	20	9	2,248	9,095	1,796	3,731	6,889	11,745	28,095	1,154	621	3,050
3468	Plating and polishing.....	36	4	279	753	242	468	622	1,515	2,084	104	(D)	(D)
3471	Lighting fixtures.....	16	8	1,049	2,905	878	1,877	2,135	6,979	15,717	1,223	(D)	(D)
348	Fabricated wire products..	38	18	1,609	5,210	1,405	2,925	4,191	10,005	(2)	241	761	2,948
349	Metal products, nec.....	45	19	2,980	12,437	2,491	5,240	9,713	28,588	(2)	2,089	1,443	8,620
3491	Metal barrels, drums, and pails.....	8	4	306	1,078	250	544	774	3,002	6,955	(D)	(D)	(D)
3494	Bolts, nuts, washers, and rivets.....	6	4	661	2,643	566	1,072	2,039	6,483	11,066	(D)	749	(D)
3499	Fabricated metal prod., nec.	17	2	167	478	132	228	302	1,015	1,828	26	(D)	(D)
35	Machinery, except elec- trical.....	442	148	29,911	124,825	22,972	45,979	84,524	224,179	(2)	61,564	23,692	94,514
352	Tractors & farm machinery.	55	24	7,344	31,507	5,335	10,162	20,797	48,962	(2)	3,290	5,539	9,949
353	Construction and mining machinery.....	19	11	1,362	5,287	1,106	2,444	3,935	7,329	(2)	1,185	1,612	5,826
354	Metalworking machinery....	54	12	883	3,892	711	1,482	2,655	6,494	(2)	601	(D)	(D)
3544	Special dies and tools.....	43	7	476	1,824	408	826	1,449	2,751	4,073	258	(NA)	(NA)
355	Special-industry machin- ery, nec.....	66	27	2,733	9,958	2,123	4,169	6,966	19,462	(2)	587	2,518	10,142
3551	Food-products, machinery....	11	4	387	1,314	279	542	964	3,731	5,591	60	196	638
3552	Textile machinery.....	9	6	381	1,432	320	659	1,041	2,244	3,263	79	297	930
3553	Woodworking machinery.....	21	9	879	2,978	639	1,189	1,876	6,061	10,243	171	767	3,220
3555	Printing-trades machinery...	6	1	196	880	143	277	521	1,197	2,028	140	208	1,073
3559	Special-industry mach., nec.	19	7	888	3,353	740	1,500	2,563	6,226	9,457	135	1,050	4,281
356	General industrial machin- ery.....	53	32	5,330	22,421	4,069	8,439	14,679	38,918	(2)	1,912	5,387	25,922
3561	Pumps and compressors.....	11	4	672	2,817	535	1,102	1,986	4,272	7,481	(D)	(D)	(D)
3563	Conveyors.....	10	8	1,827	7,713	1,307	2,733	4,912	10,215	17,334	426	(D)	(D)
3565	Industrial trucks & tractors	10	5	264	914	225	491	638	1,373	2,679	(D)	184	624
3569	General industrial mach., nec.	5	4	314	1,587	233	482	925	2,390	4,040	68	1,141	4,843
358	Service and household ma- chines.....	17	13	4,358	19,514	3,115	6,293	12,102	41,495	(2)	(D)	1,928	9,733
3585	Refrigeration machinery....	12	9	1,873	8,010	1,191	2,422	4,017	16,602	(2)	(D)	(D)	(D)

See footnotes at end of table.

## MANUFACTURES—AREA STATISTICS

## East South Central

Table 2.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Code	Industry group and industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manu- facture (\$1,000)	Value of ship- ments (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
35	Machinery, except elec- trical—Continued												
3591	Valves and fittings, exc. plbg.....	8	6	4,800	21,751	3,842	7,490	15,224	38,858	69,274	2,339	4,994	26,249
3599	Machine shops.....	137	20	2,840	9,471	2,454	5,065	7,442	20,900	36,579	644	985	(D)
36	Electrical machinery....	100	61	16,484	55,336	14,040	26,957	41,792	115,326	( <sup>2</sup> )	8,620	6,742	27,663
361	Elec. industrial apparatus	24	15	2,708	11,090	2,157	4,328	7,529	19,682	( <sup>2</sup> )	3,320	1,181	6,952
3611	Wiring devices and supplies.	6	6	766	3,110	582	1,272	2,021	5,213	9,225	309	(D)	(D)
3616	Electrical control apparatus	8	3	658	3,293	500	970	1,952	7,217	12,836	429	(D)	(D)
3621	Electrical appliances.....	15	7	1,732	7,547	1,442	2,840	5,132	16,543	40,212	457	(D)	(D)
366	Communication equipment...	30	19	8,217	24,978	7,271	13,822	20,402	48,111	( <sup>2</sup> )	2,342	(D)	(D)
369	Electrical products, nec..	18	9	1,234	4,444	850	1,701	2,672	8,843	( <sup>2</sup> )	175	(D)	(D)
37	Transportation equipment	126	46	26,047	106,873	21,717	40,172	80,978	173,411	( <sup>2</sup> )	3,985	21,285	104,804
3715	Truck trailers.....	12	6	1,322	4,740	1,090	2,282	3,591	7,659	23,223	117	(D)	(D)
372	Aircraft and parts.....	5	4	8,989	35,033	6,465	11,077	20,060	49,619	( <sup>2</sup> )	(D)	(D)	(D)
373	Ships and boats.....	53	9	8,607	34,877	8,207	14,158	32,150	48,187	( <sup>2</sup> )	1,536	11,069	47,497
3731	Ship building and repairing.	13	8	8,243	33,829	7,867	13,511	31,198	46,136	81,316	1,439	10,715	46,392
3732	Boat building and repairing.	40	1	364	1,048	340	647	952	2,050	3,761	97	354	1,105
3799	Transportation equipment, nec.....	7	3	201	656	165	376	441	1,235	2,161	26	360	1,341
38	Instruments and related products.....	39	8	3,390	12,654	2,827	5,588	9,872	19,672	( <sup>2</sup> )	632	3,015	13,319
384	Medical equip. & supplies.	25	3	516	1,371	401	748	931	2,587	( <sup>2</sup> )	90	362	1,363
3842	Surgical appliances and sup- plies.....	18	1	147	483	108	224	274	772	1,347	75	(D)	(D)
39	Miscellaneous manufac- tures <sup>5</sup> .....	302	91	14,204	49,632	11,935	23,169	36,092	77,098	( <sup>2</sup> )	8,204	5,285	16,211
394	Toys and sporting goods...	41	14	1,785	4,840	1,527	2,884	3,591	9,020	( <sup>2</sup> )	315	1,136	3,950
3949	Sporting and athletic goods.	29	8	1,214	3,320	1,049	1,990	2,543	5,908	12,070	105	902	3,333
395	Office supplies.....	28	8	1,115	2,730	960	2,039	2,000	5,228	( <sup>2</sup> )	764	1,177	3,563
396	Costume jewelry & notions.	7	4	379	907	337	645	734	2,369	( <sup>2</sup> )	49	(D)	(D)
398 399	} Miscellaneous manufactures <sup>5</sup>	190	54	9,422	36,546	7,806	14,909	26,067	51,347	( <sup>2</sup> )	6,515	2,351	6,615
3981	Brooms and brushes.....	32	8	423	897	384	711	764	2,031	4,226	13	417	(D)
3988	Morticians' goods.....	45	18	972	2,520	795	1,593	1,671	3,617	8,358	174	1,128	2,770
3993	Signs & advertising displays	85	12	986	3,371	734	1,495	2,154	5,558	9,465	229	729	2,682
19--	Ordinance and accessories....	15	14	6,914	29,407	5,789	10,900	21,243	39,474	( <sup>2</sup> )	6,073	...	...

Note: Detailed figures may not add to total. D Withheld to avoid disclosing figures for individual companies. NA Not available. <sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industries (4-digit) and industry groups (3-digit) are not shown. Industries and industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "all industries" line. <sup>2</sup>The total value of shipments figures for industry groups and a few individual industries have not been published due to the extensive and unmeasurable duplication arising from shipments from one establishment to another in the same industry classification. (See Introduction.) <sup>3</sup>The 1954 and 1947 "all industries" totals are not strictly comparable because of differences in scope between the two years in major groups 20 and 24 (see footnote 4). <sup>4</sup>Comparable data for major groups 20 and 24 are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude establishments in S.I.C. Industry 2411, Logging Camps and Contractors, which are included in the scope of the 1954 Census; the 1947 Census also excludes plants processing and distributing fluid milk which in 1954 were classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
20	Food and kindred products except subgroup 202, Dairy products.....	65,548	529,040	62,366	475,749
24	Lumber and wood products except Industry 2411, Logging camps and contractors.....	71,056	244,865	98,747	285,087

<sup>5</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordinance and Accessories." (Establishments which are Government-owned and operated are not included.)



## GEOGRAPHIC DIVISIONS

10-55

## East South Central

Table 3.—DISTRIBUTION OF OPERATING MANUFACTURING ESTABLISHMENTS BY EMPLOYMENT SIZE GROUPS AND MAJOR INDUSTRY GROUPS, FOR THE DIVISION: 1954

20 Food and kindred products	26 Pulp paper and products	32 Stone, clay, and glass products	38 Instruments and related products
21 Tobacco manufactures	27 Printing and publishing	33 Primary metal industries	39 Miscellaneous manufactures (Includes Group 19)
22 Textile mill products	28 Chemicals and products	34 Fabricated metal products	Ordnance and accessories)
23 Apparel and related products	29 Petroleum and coal products	35 Machinery, except electrical	
24 Lumber and wood products	30 Rubber products	36 Electrical machinery	
25 Furniture and fixtures	31 Leather and leather goods products	37 Transportation equipment	

Size group	Number of estab- lishments	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
East South Central Division, total....	12,854	2,302	57	321	518	4,883	452	133	1,145	515	58	47	94	603	174	543	442	100	126	39	302
1 to 4 employees.....	4,770	611	4	19	87	2,460	143	13	550	106	15	12	19	202	25	158	152	23	39	18	114
5 to 9 employees.....	2,244	409	2	7	35	977	85	4	275	63	8	5	10	101	13	79	82	8	23	8	50
10 to 19 employees.....	1,799	460	3	23	23	655	59	14	137	73	5	8	7	98	14	82	60	8	18	5	47
20 to 49 employees.....	1,702	433	9	45	49	459	72	27	105	121	5	9	8	89	28	92	73	20	13	3	42
50 to 99 employees.....	900	196	14	46	74	201	43	18	43	68	9	1	6	48	26	43	24	16	3	2	19
100 to 249 employees.....	832	141	16	71	144	102	34	29	20	43	9	6	20	48	26	53	26	8	15	...	21
250 to 499 employees.....	366	43	3	53	78	21	12	14	9	19	5	1	20	13	16	23	11	12	6	1	6
500 to 999 employees.....	156	9	2	41	23	8	3	11	3	9	2	2	4	3	13	8	9	1	2	1	2
1,000 to 2,499 employees.....	66	...	4	15	5	...	1	3	3	8	...	1	...	1	8	4	4	3	5	1	...
2,500 employees and over.....	19	...	...	1	...	...	...	...	...	5	...	2	...	...	5	1	1	1	2	...	1

## MANUFACTURES—AREA STATISTICS

## West South Central

Table 1A.—MANUFACTURING EMPLOYMENT AT OPERATING ESTABLISHMENTS AND CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARIES FOR THE DIVISION:  
1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Year <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	(Number)	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
West South Central Division:						
1954.....	734,003	2,793,741	713,365	2,678,359	20,638	115,382
1953 <sup>2</sup> .....	739,798	2,718,968	716,645	2,599,284	23,153	119,684
1952 <sup>2</sup> .....	676,186	2,355,825	662,136	2,291,581	<sup>3</sup> 14,050	<sup>3</sup> 64,244
1951 <sup>2</sup> .....	649,906	2,087,930	635,856	2,023,686	14,050	64,244
1950 <sup>2</sup> .....	603,787	1,741,591	585,924	1,669,811	17,863	71,780
1949 <sup>2</sup> .....	574,663	1,584,593	556,462	1,515,529	18,201	69,064

Note: West South Central Division consists of: Arkansas, Louisiana, Oklahoma and Texas.

<sup>1</sup>Employment data for administrative offices and auxiliaries are not available for the years prior to 1949.<sup>2</sup>The employment figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period. The employment figures for administrative and auxiliary units were compiled chiefly from Bureau of Old-Age and Survivors Insurance records and are not strictly comparable with the figures for these units that were collected by the Bureau of the Census for the year 1954.<sup>3</sup>The 1951 data are shown for 1952 since auxiliary and administrative unit data were not collected in 1952.

Table 1B.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS IN THE DIVISION: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Division and year	Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)	Horse power of prime movers and electric motors <sup>1</sup> (1,000 hp)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
West South Central:									
1954 <sup>2</sup> .....	16,469	713,365	2,678,359	556,370	1,128,594	1,868,084	5,721,035	721,066	10,316
1953 <sup>3</sup> .....		716,645	2,599,284	569,839	1,166,989	1,889,694	5,646,834	754,766	
1952 <sup>3</sup> .....		662,136	2,291,581	534,757	1,111,965	1,680,018	5,186,213	880,616	
1951 <sup>3</sup> .....	(NA)	635,856	2,023,686	520,007	1,065,598	1,497,745	4,809,571	610,952	(NA)
1950 <sup>3</sup> .....		585,924	1,669,811	469,090	974,187	1,227,347	3,849,399		
1949 <sup>3</sup> .....		556,462	1,515,529	445,671	915,414	1,092,324	3,069,647	(NA)	
1947.....	13,183	550,760	1,334,116	456,641		996,258	3,030,203	457,920	
1939.....	9,509	330,516	362,542	258,882		234,980	815,276		2,466
1929.....	10,576	341,079	416,742	297,743	(NA)	316,474	950,463		1,670
1919.....	13,239	323,642	365,389	282,751		290,125	724,099	(NA)	
1909.....	12,339	227,958	123,028	204,520		97,646	243,312		(NA)
1899.....	7,174	121,643	50,049	113,388		42,715	98,803		

NA Not available.

<sup>1</sup>Driven by purchased electricity.<sup>2</sup>The 1954 figures include data for establishments engaged in the processing and distribution of fluid milk, Industry Group 202, Dairy Products. These establishments were not included in the figures for the Annual Survey years 1949-1953 or earlier Census years. In addition, the 1954 Census and Annual Survey years include data for Logging Camps and Contractors, Industry 2411, which were not included within the scope of the 1947 Census and earlier Censuses. See footnotes to Table 2 for comparable 1954 and 1947 totals. There were also a number of changes in the definition of manufacturing industries during earlier Census years that affect the comparability of the historical series. Among the more important of these were: figures for 1935 and later years exclude data for "railroad repair shops" and "manufactured gas" which were included in 1899-1933 figures; the minimum size of establishment included for 1954 and 1947 was one employee, for 1939-1921 manufacturing establishments reporting value of shipments of \$5,000 or more were within scope whereas for 1919 and earlier years the cut-off was \$500. (This change in procedure has not appreciably affected the comparability of the historical data except for the figures on number of establishments.)<sup>3</sup>The employment and payroll figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period.



## GEOGRAPHIC DIVISIONS

10-57

## West South Central

Table 2.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Code	Industry group and industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
	All industries, total <sup>1</sup>	16,469	4,604	713,365	2,678,359	556,370	1,128,594	1,868,084	5,721,035	( <sup>2</sup> )	721,066	( <sup>3</sup> )	( <sup>3</sup> )
20	Food & kindred products.	3,781	1,235	127,041	403,044	85,182	175,998	225,770	921,791	( <sup>2</sup> )	54,713	( <sup>3</sup> )	( <sup>3</sup> )
201	Meat products.....	511	179	24,300	78,423	18,941	38,848	54,983	137,887	( <sup>2</sup> )	6,345	18,883	85,619
2011	Meat packing plants.....	259	90	15,718	59,538	11,567	25,310	40,703	97,478	( <sup>2</sup> )	4,598	15,109	70,756
2013	Prepared meats.....	85	22	2,042	6,333	1,379	2,801	3,753	14,535	( <sup>2</sup> )	701	(NA)	(NA)
2015	Poultry dressing plants.....	167	67	6,540	12,551	5,994	10,737	10,526	25,873	145,054	1,045	1,678	3,747
202	Dairy products.....	529	197	18,930	64,736	8,827	19,788	24,684	152,252	( <sup>2</sup> )	11,194	( <sup>3</sup> )	( <sup>3</sup> )
2021	Creamery butter.....	30	8	660	1,826	438	915	980	4,279	23,731	298	( <sup>3</sup> )	( <sup>3</sup> )
2022	Natural cheese.....	13	5	302	896	268	565	764	1,370	9,746	175	( <sup>3</sup> )	( <sup>3</sup> )
2023	Concentrated milk.....	12	5	320	982	216	439	588	4,155	14,199	229	( <sup>3</sup> )	( <sup>3</sup> )
2024	Ice cream and ices.....	120	36	2,119	6,272	1,228	2,654	2,931	16,270	36,369	1,620	( <sup>3</sup> )	( <sup>3</sup> )
2027	Fluid milk & other products.	257	131	14,351	52,105	5,931	13,806	17,545	121,469	336,100	8,003	( <sup>3</sup> )	( <sup>3</sup> )
2033	Canned fruits and vegetables.....	112	67	6,141	11,050	5,585	9,614	8,619	19,464	70,575	841	8,267	20,248
2035	Pickles and sauces.....	59	17	1,728	4,982	1,340	2,677	3,093	9,571	38,744	305	1,358	10,409
2036	Packaged seafood.....	25	13	1,575	2,566	1,501	1,979	2,079	4,716	26,502	(D)	1,045	3,073
2037	Frozen fruits & vegetables	15	9	836	1,268	789	1,238	1,066	3,082	6,975	272		
204	Grain mill products.....	361	163	12,918	43,628	9,143	20,984	26,131	109,245	( <sup>2</sup> )	8,871	13,875	113,727
2041	Flour and meal.....	51	25	2,747	10,343	1,906	4,245	6,801	27,743	163,412	2,000	4,970	50,209
2042	Prepared animal feeds.....	232	88	6,766	22,415	4,565	10,596	12,646	49,474	243,174	3,929	5,175	28,664
205	Bakery products.....	540	180	19,981	70,598	11,708	24,773	33,498	134,705	( <sup>2</sup> )	6,451	17,408	83,448
2051	Bread and related products...	524	171	18,143	64,857	10,298	21,968	29,560	115,497	231,894	6,033	15,137	70,851
2052	Biscuit and crackers.....	16	9	1,838	5,741	1,410	2,805	3,937	19,208	35,357	418	2,271	12,597
208	Beverages.....	568	172	15,612	52,385	7,807	15,637	21,682	126,105	( <sup>2</sup> )	7,669	13,244	82,246
2081	Bottled soft drinks.....	548	161	11,623	33,984	5,111	10,152	10,476	71,771	128,791	4,955	10,015	50,939
2082	Beer and ale.....	11	11	3,963	18,355	2,674	5,451	11,169	54,178	99,492	2,709	(D)	(D)
209	Miscellaneous foods.....	863	148	14,026	44,197	9,776	20,264	26,165	157,740	( <sup>2</sup> )	7,974	17,071	115,756
2092	Shortening and cooking oils.	13	13	1,550	6,508	1,120	2,390	4,193	28,150	164,361	1,617	1,445	25,476
2095	Flavorings.....	38	9	636	2,689	327	625	984	22,652	41,947	403	416	14,027
2097	Manufactured ice.....	489	40	4,257	10,937	2,776	6,544	6,666	21,235	26,775	990	8,410	38,517
2099	Food preparations, nec.....	300	74	6,254	19,357	4,530	8,745	11,092	73,552	350,618	4,213	6,274	35,309
21	Tobacco manufactures....	6	4	1,187	2,137	1,130	1,885	1,962	4,131	( <sup>2</sup> )	26	(D)	(D)
22	Textile mill products...	102	60	14,458	36,453	13,415	26,962	31,257	56,991	( <sup>2</sup> )	3,669	12,533	44,233
221	Woolen and worsted manufacture.....	4	2	112	293	100	184	223	499	( <sup>2</sup> )	59	(D)	(D)
225	Knitting mills.....	15	13	1,658	4,311	1,504	2,692	3,424	5,656	( <sup>2</sup> )	404	1,291	4,050
2251	Full-fashioned hosiery mills	7	7	771	2,392	686	1,261	1,865	3,710	( <sup>2</sup> )	161	441	(D)
229	Miscellaneous textile goods.....	37	14	1,890	5,444	1,598	3,354	4,121	13,005	( <sup>2</sup> )	369	1,008	3,435
2293	Padding & upholstery filling	17	6	695	1,796	597	1,356	1,464	3,588	8,611	110	711	(D)
2298	Cordage and twine.....	12	5	860	2,581	745	1,455	1,997	7,754	16,148	171	(D)	(D)
23	Apparel & related products.....	688	356	42,341	89,083	38,635	70,674	70,727	143,843	( <sup>2</sup> )	3,398	31,259	97,498
231	Men's and boys' suits and coats.....	19	14	1,811	4,355	1,611	2,840	2,944	6,475	( <sup>2</sup> )	63	2,599	7,033
232	Men's & boys' furnishings.	145	119	19,490	38,954	18,062	32,699	32,191	64,875	( <sup>2</sup> )	1,141	14,627	45,051
2321	Men's dress shirts and nightwear.....	20	16	2,023	3,950	1,882	3,384	3,140	5,604	12,706	174	1,823	4,955
2327	Separate trousers.....	34	30	3,683	7,472	3,527	6,423	6,659	12,734	36,320	301	2,424	10,922
2328	Work shirts.....	3	3	187	301	179	311	278	336	622	(D)	(D)	(D)
2329	Men's & boys' clothing, nec.	73	63	12,586	24,793	11,603	21,138	20,528	40,382	96,938	625	8,904	24,261
233	Women's and misses' outerwear.....	137	87	8,311	18,923	7,564	14,295	14,962	30,074	( <sup>2</sup> )	479	5,253	15,347
2333	Dresses, unit price.....	42	29	3,073	7,836	2,693	4,945	5,730	12,480	21,771	160	1,554	6,142
2334	Dresses, dozen price.....	24	13	1,740	3,472	1,642	3,084	3,017	5,103	10,343	51	1,497	3,602
2337	Women's suits, coats, and skirts.....	32	22	1,715	3,958	1,567	2,999	3,115	6,757	12,554	119	(D)	(D)
2339	Women's outerwear, nec.....	18	11	835	1,843	780	1,574	1,537	2,998	6,666	95	122	(D)
234	Women's undergarments....	43	27	3,278	6,285	3,057	5,460	5,302	10,796	( <sup>2</sup> )	186	1,565	4,155
236	Children's outerwear.....	74	40	3,125	5,774	2,901	5,250	4,769	10,135	( <sup>2</sup> )	126	(D)	(D)
238	Miscellaneous apparel.....	45	21	1,696	3,888	1,464	2,826	2,691	5,389	( <sup>2</sup> )	127	619	1,821
2382	Fabric work gloves.....	8	7	549	925	522	922	819	1,530	3,322	32	(D)	(D)
2387	Belts.....	24	10	971	2,640	791	1,632	1,632	3,243	6,639	81	346	(D)

See footnotes at end of table.

## MANUFACTURES—AREA STATISTICS

West South Central

Table 2.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Code	Industry group and industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manu- facture (\$1,000)	Value of ship- ments (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
23	Apparel and related products--Continued												
2392	Housefurnishings, nec.....	38	5	389	923	334	595	667	1,534	3,947	23	554	1,536
2393	Textile bags.....	19	14	1,944	4,547	1,617	2,933	3,149	5,442	31,123	1,027	2,680	12,210
2394	Canvas products.....	67	7	805	1,952	678	1,269	1,390	3,392	7,534	93	(D)	(D)
2399	Textile products, nec.....	43	6	442	907	393	678	663	1,471	3,456	13	442	1,745
24	Lumber and wood products	3,310	591	63,934	144,660	58,721	119,555	122,939	223,885	(2)	17,524	(3)	(3)
2411	Logging camps and contractors.....	1,053	43	6,202	10,291	5,605	9,434	9,141	19,617	37,174	1,798	(3)	(3)
242	Lumber and basic products.	1,625	374	40,326	90,505	37,707	78,660	79,123	136,535	(2)	12,732	69,198	198,081
2421	Sawmills and planing mills..	1,569	348	38,701	87,511	36,174	75,972	76,500	132,064	277,425	12,641	64,472	188,139
2422	Veneer mills.....	14	12	815	1,438	772	1,319	1,228	2,256	3,960	51	987	(D)
243	Millwork and related products.....	347	71	6,434	19,259	5,382	11,314	14,342	28,425	(2)	1,556	6,802	24,514
2431	Millwork plants.....	327	58	4,865	15,050	4,022	8,603	11,208	23,307	56,782	1,401	4,479	16,189
2432	Plywood plants.....	8	8	1,056	2,375	987	1,969	2,071	2,816	4,854	114	827	2,300
2433	Prefabricated wood products.	12	5	513	1,834	373	742	1,063	2,301	6,727	41	1,496	6,025
244	Wooden containers.....	87	45	6,351	13,610	5,891	11,754	11,413	19,668	(2)	687	7,797	21,886
2441	Fruit and vegetable baskets.	15	11	1,296	2,422	1,252	2,569	2,047	3,115	4,782	113	1,930	(D)
2444	Wooden boxes.....	62	33	4,868	10,685	4,467	8,864	8,975	15,623	33,656	553	5,218	16,070
249	Miscellaneous wood products.....	198	58	4,619	10,992	4,135	8,392	8,918	19,639	(2)	749	7,127	27,752
2491	Wood preserving.....	61	29	2,467	6,373	2,134	4,367	5,026	11,990	35,200	513	3,689	19,064
2499	Wood products, nec.....	132	29	2,141	4,600	1,991	4,005	3,876	7,602	14,868	(D)	(D)	(D)
25	Furniture and fixtures..	733	156	17,670	50,883	15,053	30,218	37,655	86,273	(2)	3,660	11,560	43,367
251	Household furniture.....	401	106	12,842	35,233	11,094	21,883	26,691	59,176	(2)	2,375	8,415	30,854
2511	Wood furniture, not uphstd.	134	40	6,047	15,327	5,339	10,670	11,818	23,200	49,704	933	4,755	15,583
2512	Uphstd. household furniture	75	42	3,983	11,674	3,452	6,625	8,975	19,481	40,333	896	2,232	9,459
2514	Metal household furniture...	24	7	526	1,632	457	942	1,229	2,780	7,263	130	118	(D)
252	Office furniture.....	10	4	207	600	177	380	479	1,068	(2)	43	(D)	(D)
253	Public and professional furniture.....	34	15	1,548	4,661	1,377	3,057	3,615	7,951	(2)	486	(D)	(D)
2541	Partitions and fixtures...	99	14	1,064	4,151	872	1,808	3,052	6,309	11,124	150	959	3,732
256	Screens, shades, & blinds.	173	12	1,771	5,419	1,360	2,706	3,248	10,217	(2)	494	1,564	6,474
2561	Window and door screens....	33	5	747	2,864	571	1,227	1,694	5,755	10,252	179	(D)	(D)
2563	Venetian blinds.....	135	6	982	2,447	760	1,421	1,492	4,246	10,123	(D)	1,206	4,563
259	Furniture & fixtures, nec.	16	5	237	818	171	382	569	1,550	(2)	109	104	645
26	Pulp, paper and products	165	123	29,752	122,329	25,232	54,127	96,614	286,198	(2)	23,285	22,371	156,090
261	Pulp, paper and board.....	45	41	17,609	78,614	15,224	33,119	64,091	204,459	(2)	18,297	15,252	117,077
2611	Pulp mills.....	15	13	6,272	27,482	5,321	11,602	21,926	81,524	170,108	9,089	5,570	49,558
2612	Paper and paper board mills.	17	17	8,231	37,807	7,131	15,635	30,631	90,504	293,399	7,662	6,601	45,642
2613	Building paper & board mills	13	11	3,105	13,324	2,771	5,881	11,533	32,430	45,261	1,546	3,081	21,877
2651	Envelopes.....	9	8	442	1,604	335	716	1,026	2,994	5,609	101	(D)	(D)
2661	Paper bags.....	29	20	4,327	14,688	3,945	8,051	12,756	25,697	92,490	2,149	2,765	16,123
267	Paperboard containers.....	50	39	5,763	21,538	4,421	9,291	14,371	36,358	(2)	1,800	3,835	20,334
2699	Paper & board products, nec.....	23	10	1,287	4,560	1,049	2,390	3,426	13,686	29,238	831	(D)	(D)
27	Printing and publishing.	2,247	283	35,762	136,163	22,126	45,084	80,855	244,960	(2)	11,872	28,996	154,323
2711	Newspapers.....	914	129	20,948	81,434	11,556	24,012	44,667	151,624	218,182	7,070	16,963	97,854
2721	Periodicals.....	113	8	935	4,056	291	424	831	9,604	14,253	154	850	5,446
273	Books.....	51	8	1,224	3,794	852	1,881	1,982	6,177	(2)	293	(D)	(D)
2731	Books; publishing & printing	26	5	922	2,739	617	1,374	1,246	4,371	6,886	(D)	345	1,323
2732	Book printing.....	25	3	301	1,055	234	507	736	1,806	2,837	(D)	(D)	(D)
2741	Miscellaneous publishing..	39	4	413	1,082	115	200	270	2,252	3,566	33	(D)	(D)
2751	Commercial printing.....	782	84	7,214	26,533	5,533	10,962	19,341	41,860	67,497	2,640	7,401	33,282
2761	Lithographing.....	149	26	2,667	10,397	1,865	3,792	6,980	18,867	29,728	1,102	1,341	5,961
2781	Bookbinding.....	23	5	387	1,042	342	680	861	1,905	2,775	68	(D)	(D)
279	Printing trade services...	147	14	1,398	6,402	1,060	2,120	4,739	9,955	(2)	318	1,039	6,079
2791	Typesetting.....	48	3	500	2,193	417	767	1,821	3,425	3,834	155	263	(D)
2792	Engraving and plate printing	32	2	261	902	206	474	584	1,441	1,981	(D)	194	(D)
2793	Photoengraving.....	59	8	574	2,993	385	788	2,091	4,599	5,721	84	531	3,428

See footnotes at end of table.



GEOGRAPHIC DIVISIONS  
West South Central

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Table 2.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Code	Industry group and industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manu- facture (\$1,000)	Value of ship- ments (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
28	Chemicals and products..	834	370	61,208	289,754	43,949	92,038	190,230	1,045,737	(2)	236,690	42,093	388,966
281	Inorganic chemicals.....	54	43	14,628	68,296	10,583	21,834	46,569	198,548	(2)	80,724	7,201	46,691
2819	Inorganic chemicals, nec....	42	31	11,391	52,696	8,229	17,044	35,623	129,848	265,030	76,974	(D)	(D)
2829	Organic chemicals, nec....	27	23	18,132	102,257	12,206	24,534	64,397	470,489	776,204	61,149	(D)	(D)
2834	Pharmaceutical prepara- tions.....	55	7	491	1,570	316	507	705	3,925	6,621	(D)	(D)	(D)
284	Soap and related products.	68	6	853	3,649	582	1,153	2,194	22,186	(2)	331	878	15,402
285	Paints and allied products	83	26	2,089	8,828	1,188	2,481	4,000	21,975	(2)	650	1,559	14,762
2851	Paints and varnishes.....	75	25	2,015	8,579	1,135	2,376	3,848	20,976	50,807	(D)	(D)	(D)
286	Gum and wood chemicals....	10	7	1,124	4,388	948	2,040	3,288	9,556	(2)	1,301	(D)	(D)
287	Fertilizers.....	56	31	2,601	9,373	1,982	4,061	6,431	26,129	(2)	3,430	2,018	15,513
2871	Fertilizers.....	26	20	2,071	7,948	1,562	3,268	5,517	23,623	63,599	2,480	1,473	12,723
2872	Fertilizers, mixing only....	30	11	529	1,425	419	793	913	2,506	11,924	950	545	2,790
288	Vegetable and animal oils.	178	119	6,488	20,303	5,310	13,552	14,556	47,811	(2)	6,161	8,170	56,529
2881	Cottonseed oil mills.....	122	99	5,301	16,690	4,312	11,216	11,935	39,273	233,555	5,395	6,448	(D)
2884	Vegetable oil mills, nec....	13	2	183	465	155	329	365	1,210	7,455	(D)	792	4,636
2886	Grease and tallow.....	35	12	632	1,998	512	1,286	1,386	4,262	9,613	315	578	4,080
289	Chemical products, nec....	265	83	6,913	29,933	5,205	10,801	20,580	107,266	(2)	12,811	5,041	54,219
2891	Printing ink.....	14	3	147	582	98	203	341	1,667	3,229	23	(D)	(D)
2893	Toilet preparations.....	25	3	236	709	157	293	366	1,539	2,650	58	174	782
2896	Compressed & liquefied gases	60	18	1,147	4,441	668	1,329	2,240	10,137	13,452	1,006	915	6,237
2897	Insecticides & fungicides...	40	17	1,142	4,662	780	1,486	2,560	11,933	32,079	941	164	856
2899	Chemical products, nec.....	72	10	891	3,855	675	1,307	2,461	21,567	50,037	1,156	426	3,538
29	Petroleum and coal prod- ucts.....	195	132	63,979	335,720	47,770	93,418	235,612	777,573	(2)	239,131	59,080	578,950
2911	Petroleum refining.....	130	106	60,694	322,439	45,490	88,650	227,276	743,377	4,860,094	236,024	56,090	556,304
295	Paving & roofing materials	35	15	1,624	6,237	1,303	2,806	4,517	15,969	(2)	603	1,973	14,460
2951	Paving mixtures and blocks..	17	3	190	720	144	292	486	2,051	5,115	49	142	1,216
2952	Roofing felts and coatings..	18	12	1,434	5,517	1,159	2,514	4,030	13,918	36,108	553	1,831	13,244
30	Rubber products.....	41	15	3,592	16,142	3,116	6,615	13,693	56,532	(2)	3,264	(D)	(D)
31	Leather & leather goods.	130	49	7,248	15,116	6,766	11,791	13,292	27,331	(2)	486	3,093	9,343
3111	Leather tanning and fin- ishing.....	4	2	144	388	130	244	323	538	1,219	18	168	(D)
314	Footwear, except rubber...	62	33	6,086	12,455	5,736	9,818	11,228	22,435	(2)	411	2,013	5,286
317	Purses and small leather goods.....	17	5	296	554	269	487	415	950	(2)	30	(D)	(D)
3171	Handbags and purses.....	8	3	160	265	153	271	242	427	800	19	(D)	(D)
3172	Small leather goods.....	9	2	136	289	116	216	173	522	865	11	102	(D)
319	Miscellaneous leather goods.....	34	4	236	537	198	413	425	939	(2)	6	504	1,912
3192	Saddlery, harness, and whips	26	1	147	353	124	274	275	617	1,266	2	(D)	(D)
32	Stone, clay, and glass products.....	688	217	27,096	96,113	22,992	48,265	74,759	241,775	(2)	18,793	20,886	107,883
3221	Glass containers.....	8	8	2,546	9,509	2,233	4,502	7,713	21,564	35,346	957	(D)	(D)
3231	Products of purchased glass.....	29	4	325	1,062	255	498	689	1,754	3,947	(D)	357	1,410
3241	Cement, hydraulic.....	18	18	4,026	16,087	3,339	7,025	11,999	64,262	88,242	8,630	3,242	27,039
325	Structural clay products..	88	67	5,578	16,063	4,965	10,946	12,633	25,543	(2)	2,013	4,049	12,358
3251	Brick and hollow tile.....	71	53	4,005	11,168	3,579	8,072	8,889	17,878	23,213	1,494	3,295	9,757
326	Pottery & related products	36	8	998	3,490	851	1,682	2,847	8,404	(2)	268	698	2,596
327	Concrete and plaster prod- ucts.....	359	69	6,387	20,644	5,206	11,396	15,184	57,029	(2)	3,705	4,952	24,737
3271	Concrete products.....	341	54	4,269	12,537	3,410	7,226	8,655	24,230	47,286	2,161	3,324	11,186
3275	Mineral wool.....	3	3	157	634	118	267	386	1,186	1,923	38	(D)	(D)
329	Nonmet. mineral prod., nec.....	76	27	3,109	11,859	2,560	5,408	8,772	29,268	(2)	2,269	(D)	(D)
3293	Gaskets and asbestos insula- tions.....	10	3	220	901	168	366	562	1,717	2,988	(D)	(D)	(D)
3295	Minerals: ground or treated.	32	12	704	2,528	588	1,303	1,857	10,557	19,126	530	(D)	(D)

See footnotes at end of table.

## MANUFACTURES—AREA STATISTICS

West South Central

Table 2.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Code	Industry group and industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manu- facture (\$1,000)	Value of ship- ments (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
33	Primary metal industries	229	123	32,687	143,991	28,309	58,128	117,715	308,258	(2)	31,634	18,778	96,122
331	Blast furnaces and steel mills.....	8	8	5,859	29,995	5,223	10,825	25,148	59,602	(2)	7,933	(D)	(D)
332	Iron and steel foundries..	71	47	6,292	23,310	5,601	11,407	18,827	39,366	(2)	1,603	4,610	16,277
3321	Gray-iron foundries.....	59	35	3,665	12,571	3,317	6,792	10,733	22,542	36,251	1,093	2,602	(D)
333	Primary nonferrous metals.	20	19	16,138	72,822	13,927	28,657	60,575	173,545	(2)	19,975	(D)	(D)
3334	Primary aluminum.....	6	6	8,581	40,432	7,135	15,147	32,473	107,637	246,809	17,587	(D)	(D)
3341	Secondary nonferrous met- als.....	17	7	508	1,854	414	829	1,366	4,357	22,966	136	2,158	14,112
335	Nonferrous rolling and drawing.....	8	6	333	1,438	229	528	867	3,196	(2)	242	(D)	(D)
3361	Nonferrous foundries.....	81	21	1,367	4,850	1,186	2,313	3,781	7,878	15,104	837	683	2,830
339	Primary metal industries, nec.....	24	15	2,188	9,721	1,727	3,568	7,149	20,311	(2)	906	(D)	(D)
34	Fabricated metal prod- ucts.....	947	275	32,105	128,427	24,786	51,832	86,912	226,032	(2)	13,596	21,302	105,730
3411	Tin cans and other tinware	11	7	3,043	13,916	2,577	5,358	11,091	27,005	78,069	2,814	2,485	12,499
342	Cutlery, tools, & hardware	36	8	518	1,758	436	910	1,285	3,225	(2)	186	(D)	(D)
3429	Hardware, nec.....	18	3	245	974	198	412	664	1,985	3,627	131	(D)	(D)
343	Heating and plumbing equipment.....	34	9	901	3,505	682	1,401	2,270	7,480	(2)	159	2,028	9,618
344	Structural metal products.	625	190	22,037	89,293	16,423	34,654	57,084	149,191	(2)	7,628	13,302	64,681
3441	Structural & ornamental work	260	93	10,585	42,159	7,963	16,840	26,955	62,654	151,724	3,948	6,453	29,909
3442	Metal doors, sash, and trim.	32	12	985	3,626	768	1,585	2,294	6,456	12,426	326	253	751
3443	Boiler shop products.....	98	59	8,090	34,834	5,856	12,517	21,916	64,830	133,732	2,461	5,247	28,732
3444	Sheet-metal work.....	235	26	2,376	8,674	1,835	3,711	5,918	15,248	29,149	892	1,349	5,289
346	Metal stamping and coating	109	20	1,585	5,569	1,315	2,733	4,182	9,272	(2)	566	1,002	3,901
3463	Metal stampings.....	21	8	465	1,740	378	768	1,248	3,416	7,922	143	673	2,540
3468	Plating and polishing.....	67	5	534	1,643	467	954	1,358	2,959	3,775	225	(D)	(D)
3471	Lighting fixtures.....	24	5	225	757	161	310	416	1,903	4,335	15	(D)	(D)
348	Fabricated wire products..	46	16	1,233	4,037	1,004	2,071	3,017	8,592	(2)	892	573	3,328
349	Metal products, nec.....	62	19	2,559	9,591	2,186	4,392	7,563	18,907	(2)	1,334	1,431	9,814
3491	Metal barrels, drums, and pails.....	12	9	1,265	5,762	1,049	2,098	4,431	12,242	35,319	512	1,038	8,277
3494	Bolts, nuts, washers, and rivets.....	7	2	125	500	97	209	334	1,143	2,068	(D)	(D)	(D)
3495	Screw machine products.....	10	4	155	565	132	271	454	903	1,647	124	(D)	(D)
3499	Fabricated metal prod., nec.	30	2	301	943	240	420	674	1,217	3,901	228	(D)	(D)
35	Machinery, except elec- trical.....	1,208	340	46,378	203,743	34,927	73,159	135,080	414,599	(2)	22,455	31,719	174,954
352	Tractors & farm machinery.	75	14	1,242	4,338	992	2,150	3,057	7,933	(2)	223	2,364	9,378
353	Construction and mining machinery.....	257	118	23,485	112,289	16,838	35,157	71,479	237,823	(2)	14,961	18,278	107,314
354	Metalworking machinery....	68	16	1,127	5,090	915	2,044	3,768	8,470	(2)	647	(D)	(D)
3544	Special dies and tools.....	49	7	479	2,222	403	928	1,700	3,316	4,559	267	(NA)	(NA)
355	Special-industry machin- ery, nec.....	87	20	3,354	13,277	2,653	5,808	9,203	23,581	(2)	740	2,737	11,926
3551	Food-products machinery....	24	4	430	1,485	349	723	1,064	2,316	3,587	95	483	1,840
3553	Woodworking machinery.....	10	2	128	641	97	212	429	981	1,714	49	244	1,064
3559	Special-industry mach., nec.	42	14	2,733	10,920	2,162	4,787	7,558	19,822	36,300	587	1,962	8,566
356	General industrial machin- ery.....	153	61	5,502	22,551	4,132	8,356	14,513	45,294	(2)	1,466	3,315	19,158
3561	Pumps and compressors.....	49	26	2,451	10,373	1,869	3,844	6,736	23,435	43,840	661	(D)	(D)
3563	Conveyors.....	18	10	517	2,064	352	718	1,127	3,648	6,306	161	(D)	(D)
3565	Industrial trucks and trac- tors.....	7	1	246	1,043	191	376	736	1,978	4,076	(D)	130	466
3569	General industrial machin- ery, nec.....	31	13	1,182	5,023	869	1,729	3,244	8,692	19,506	259	446	2,968
358	Service and household ma- chines.....	67	27	3,318	11,504	2,686	5,602	7,942	28,130	(2)	942	1,829	9,642
3585	Refrigeration machinery.....	51	21	2,823	9,735	2,300	4,813	6,845	25,381	(2)	882	(D)	(D)

See footnotes at end of table.



## GEOGRAPHIC DIVISIONS

## West South Central

10-61

Table 2.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Code	Industry group and industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manu- facture (\$1,000)	Value of ship- ments (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
		Total	20 or more em- ployees										
				Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
35	Machinery, except elec- trical--Continued												
3591	Valves and fittings, exc. plumbing.....	35	24	2,349	9,963	1,708	3,562	6,447	20,978	40,801	1,038	1,106	6,383
3599	Machine shops.....	395	42	4,030	15,281	3,369	7,055	11,506	27,444	43,242	1,796	(D)	(D)
36	Electrical machinery....	114	38	7,803	28,628	6,054	12,582	19,313	60,221	(2)	2,856	2,300	14,109
361	Elec. industrial apparatus	34	16	2,187	7,987	1,738	3,577	5,311	16,220	(2)	1,402	1,167	4,970
3616	Electrical control apparatus	15	9	745	3,209	516	1,102	1,959	5,725	11,343	289	(D)	(D)
366	Communication equipment...	30	8	3,579	13,678	2,579	5,518	8,658	25,713	(2)	847	(D)	(D)
369	Electrical products, nec..	35	10	1,099	3,968	900	1,790	2,866	8,335	(2)	398	(D)	(D)
37	Transportation equipment	340	120	76,123	354,721	59,526	118,690	255,078	464,688	(2)	19,633	31,750	132,722
3715	Truck trailers.....	15	8	1,048	4,295	859	1,929	3,161	7,038	16,734	87	(D)	(D)
372	Aircraft and parts.....	38	25	53,973	263,018	40,250	79,708	180,071	317,447	(2)	(D)	(D)	(D)
373	Ships and boats.....	174	55	13,593	55,774	12,138	24,149	47,000	70,819	(2)	3,191	13,883	54,001
3731	Ship building and repairing.	49	31	11,611	49,759	10,398	20,755	42,107	60,535	101,221	2,367	11,242	46,808
3732	Boat building and repairing.	125	24	1,981	6,015	1,740	3,394	4,892	10,283	18,748	823	2,641	7,193
38	Instruments and related products.....	120	26	2,795	10,242	2,209	4,381	6,769	22,908	(2)	1,049	2,484	7,999
384	Medical equip. & supplies.	40	3	440	1,391	334	662	896	3,029	(2)	194	204	741
3842	Surgical appliances and sup- plies.....	35	3	415	1,303	314	621	826	2,754	6,052	176	(D)	(D)
39	Miscellaneous manufac- tures <sup>4</sup> .....	591	91	20,149	71,004	16,462	33,185	51,844	107,301	(2)	13,323	5,365	21,307
391	Jewelry and silverware....	25	2	372	1,010	248	489	641	952	(2)	21	(D)	(D)
394	Toys and sporting goods...	86	12	1,551	3,731	1,362	2,670	2,821	8,577	(2)	498	738	1,997
3949	Sporting and athletic goods.	66	9	1,281	3,110	1,133	2,221	2,373	7,314	11,830	389	683	1,836
395	Office supplies.....	36	5	369	1,140	241	487	625	1,877	(2)	97	215	1,177
3953	Hand stamps and stencils....	31	2	167	521	108	219	302	951	1,333	17	(D)	(D)
396	Costume jewelry & notions.	25	4	307	619	263	507	405	902	(2)	26	(D)	(D)
398 399	Miscellaneous manu- factures <sup>4</sup> .....	368	58	16,632	61,454	13,632	27,599	45,360	89,104	(2)	12,272	3,569	14,597
3981	Brooms and brushes.....	74	6	629	1,367	529	960	1,078	1,957	4,885	130	520	(D)
3988	Morticians' goods.....	44	16	1,035	2,841	839	1,718	1,764	4,063	8,331	154	1,223	4,885
3993	Signs & advertising displays	180	12	1,696	6,032	1,317	2,527	4,194	9,198	14,326	557	1,417	6,172
19--	Ordnance and accessories....	23	18	12,559	49,503	10,324	21,246	37,063	71,297	(2)	11,248	(D)	(D)

Note: Detailed figures may not add to total. D Withheld to avoid disclosing figures for individual companies. NA Not available. <sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industries (4-digit) and industry groups (3-digit) are not shown. Industries and industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "all industries" line. <sup>2</sup>The total value of shipments figures for industry groups and a few individual industries have not been published due to the extensive and unmeasurable duplication arising from shipments from one establishment to another in the same industry classification. (See Introduction.) <sup>3</sup>Comparable data for major groups 20 and 24 are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude establishments in S.I.C. Industry 2411, Logging Camps and Contractors, which are included in the scope of the 1954 Census, the 1947 Census also excludes plants processing and distributing fluid milk which in 1954 were classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	All industries except subgroups 202 and 2411, total.....	688,183	5,549,166	546,083	3,008,043
20	Food and kindred products except subgroup 202, Dairy products.....	108,111	769,539	106,069	571,524
24	Lumber and wood products except Industry 2411, Logging camps and contractors.....	57,732	204,268	90,924	272,233

<sup>4</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)

## MANUFACTURES—AREA STATISTICS

## West South Central

Table 3.—DISTRIBUTION OF OPERATING MANUFACTURING ESTABLISHMENTS BY EMPLOYMENT SIZE GROUPS AND MAJOR INDUSTRY GROUPS, FOR THE DIVISION: 1954

20 Food and kindred products	26 Pulp paper and products	32 Stone, clay, and glass products	38 Instruments and related products
21 Tobacco manufactures	27 Printing and publishing	33 Primary metal industries	39 Miscellaneous manufactures (includes Group 19 Ordnance and accessories)
22 Textile mill products	28 Chemicals and products	34 Fabricated metal products	
23 Apparel and related products	29 Petroleum and coal products	35 Machinery, except electrical	
24 Lumber and wood products	30 Rubber products	36 Electrical machinery	
25 Furniture and fixtures	31 Leather and leather goods products	37 Transportation equipment	

Size group	Number of establishments	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
West South Central, total.....	16,469	3,781	6	102	688	3,310	733	165	2,247	834	195	41	130	688	229	947	1,208	114	340	120	591
1 to 4 employees.....	6,796	1,225	1	21	181	1,758	373	15	1,210	215	29	16	51	256	48	400	458	44	110	55	330
5 to 9 employees.....	2,780	707	1	10	66	561	108	9	460	127	17	6	14	109	31	147	219	14	50	30	94
10 to 19 employees.....	2,289	614	...	11	85	400	96	18	294	122	17	4	16	106	27	125	191	18	60	9	76
20 to 49 employees.....	2,152	593	...	10	150	280	82	42	172	186	27	5	25	89	51	140	174	14	52	12	48
50 to 99 employees.....	1,130	353	1	10	86	171	42	19	63	82	24	3	7	57	20	65	78	5	22	6	16
100 to 249 employees.....	811	215	...	21	83	104	17	24	25	56	38	5	6	46	24	44	53	11	18	7	14
250 to 499 employees.....	325	60	2	15	28	30	14	20	15	21	21	...	9	21	8	18	23	4	10	1	5
500 to 999 employees.....	117	9	1	1	9	5	1	15	8	14	9	...	2	4	11	7	8	3	8	...	2
1,000 to 2,499 employees.....	50	5	...	3	...	1	...	2	...	9	8	2	...	...	7	1	3	1	3	...	5
2,500 employees and over.....	19	...	...	...	...	...	...	1	...	2	5	...	...	...	2	...	1	...	7	...	1



## GEOGRAPHIC DIVISIONS

10-63

## Mountain

Table 1A.--MANUFACTURING EMPLOYMENT AT OPERATING ESTABLISHMENTS AND CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARIES FOR THE DIVISION:  
1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Year <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	(Number)	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
Mountain Division:						
1954.....	190,674	766,726	187,493	749,586	3,181	17,140
1953 <sup>2</sup> .....	187,072	743,945	183,925	728,013	3,147	15,932
1952 <sup>2</sup> .....	174,914	655,387	172,878	644,895	<sup>3</sup> 2,036	<sup>3</sup> 10,492
1951 <sup>2</sup> .....	166,772	588,370	164,736	577,878	2,036	10,492
1950 <sup>2</sup> .....	157,144	486,235	154,709	475,231	2,435	11,004
1949 <sup>2</sup> .....	144,888	433,435	142,600	422,955	2,288	10,480

Note: Mountain Division consists of: Montana, Idaho, Wyoming, Colorado, New Mexico, Arizona, Utah and Nevada.

<sup>1</sup>Employment data for administrative offices and auxiliaries are not available for the years prior to 1949.<sup>2</sup>The employment figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period. The employment figures for administrative and auxiliary units were compiled chiefly from Bureau of Old-Age Survivors Insurance records and are not strictly comparable with the figures for these units that were collected by the Bureau of the Census for the year 1954.<sup>3</sup>The 1951 data are shown for 1952 since auxiliary and administrative unit data were not collected in 1952.

Table 1B.--GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS IN THE MOUNTAIN DIVISION: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Division and year	All employees			Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)	Horse power of prime movers and electric motors <sup>2</sup> (1,000 hp)
	Establishments, number	Number	Payroll (\$1,000)	Number	Man-hour (\$1,000)	Wages (\$1,000)			
Mountain:									
1954 <sup>2</sup> .....	6,685	187,493	749,586	144,101	286,848	532,152	1,505,145	126,844	2,194
1953 <sup>2</sup> .....		183,925	728,013	145,090	292,492	537,725	1,501,645	111,330	
1952 <sup>2</sup> .....		172,878	644,895	137,194	279,878	482,035	1,269,597	119,631	
1951 <sup>2</sup> .....		164,736	577,878	133,435	271,407	439,031	1,257,762	107,858	
1950 <sup>2</sup> .....	(NA)	154,709	475,231	122,809	247,670	354,347	1,042,063	(NA)	(NA)
1949 <sup>2</sup> .....		142,600	422,955	114,427	231,750	315,573	782,868		
1947.....	5,044	140,477	375,900	115,144		290,285	783,771	95,023	1,025
1939.....	3,987	89,409	119,074	67,011		79,099	269,381		
1929.....	4,319	118,778	181,403	102,492	(NA)	144,486	370,056	(NA)	870
1919.....	6,675	122,668	169,004	105,794		137,075	303,751		
1909.....	5,254	85,013	69,392	75,435		56,870	135,304		
1899.....	3,146	47,983	31,610	44,497		27,714	76,220		

NA Not available.

<sup>1</sup>Driven by purchased electricity.<sup>2</sup>The 1954 figures include data for establishments engaged in the processing and distribution of fluid milk, Industry Group 202, Dairy Products. These establishments were not included in the figures for the Annual Survey years 1949-1953 or earlier Census years. In addition, the 1954 Census and Annual Survey years include data for Logging Camps and Contractors, Industry 2411, which were not included within the scope of the 1947 Census and earlier Censuses. See footnotes to Table 2 for comparable 1954 and 1947 totals. There were also a number of changes in the definition of manufacturing industries during earlier Census years that affect the comparability of the historical series. Among the more important of these were: figures for 1935 and later years exclude data for "railroad repair shops" and "manufactured gas" which were included in 1899-1933 figures; the minimum size of establishment included for 1954 and 1947 was one employee, for 1939-1921 manufacturing establishments reporting value of shipments of \$5,000 or more were within scope whereas for 1919 and earlier years the cut-off was \$500. (This change in procedure has not appreciably affected the comparability of the historical data except for the figures on number of establishments.)<sup>3</sup>The employment and payroll figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period.

## MANUFACTURES—AREA STATISTICS

## Mountain

Table 2.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Code	Industry group and industry	1954										1947	
		Establishments, number		All employees		Production workers			Value added by manu- facture (\$1,000)	Value of ship- ments (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
	All industries, total <sup>1</sup>	6,685	1,467	187,493	749,586	144,101	286,848	532,152	1,505,145	( <sup>2</sup> )	126,844	( <sup>3</sup> )	( <sup>3</sup> )
20	Food & kindred products.	1,738	481	44,420	157,241	31,440	64,015	99,130	325,188	( <sup>2</sup> )	24,835	( <sup>3</sup> )	( <sup>3</sup> )
201	Meat products.....	217	66	8,305	32,999	6,394	13,256	23,523	49,385	( <sup>2</sup> )	3,129	6,973	33,630
2011	Meat packing plants.....	147	50	7,062	29,371	5,344	11,281	20,877	44,525	( <sup>2</sup> )	2,378	5,968	29,435
2013	Prepared meats.....	30	4	442	1,837	327	692	1,164	3,398	( <sup>2</sup> )	272	(NA)	(NA)
2015	Poultry dressing plants....	40	12	800	1,791	722	1,282	1,480	1,461	9,706	477	656	1,899
202	Dairy products.....	482	114	8,949	31,449	5,164	10,943	16,075	70,423	( <sup>2</sup> )	5,810	( <sup>3</sup> )	( <sup>3</sup> )
2021	Creamery butter.....	60	10	840	2,660	616	1,296	1,838	5,778	33,895	526	( <sup>3</sup> )	( <sup>3</sup> )
2022	Natural cheese.....	42	10	550	1,729	451	991	1,384	4,097	23,360	558	( <sup>3</sup> )	( <sup>3</sup> )
2023	Concentrated milk.....	9	7	418	1,517	353	764	1,220	5,497	30,003	130	( <sup>3</sup> )	( <sup>3</sup> )
2024	Ice cream and ices.....	75	17	1,134	3,704	678	1,326	1,873	7,390	18,158	909	( <sup>3</sup> )	( <sup>3</sup> )
2025	Special dairy products.....	5	3	222	*652	193	331	511	1,946	11,382	3	( <sup>3</sup> )	( <sup>3</sup> )
2026	Fluid milk.....	61	...	245	669	159	321	418	1,661	4,949	194	( <sup>3</sup> )	( <sup>3</sup> )
2027	Fluid milk & other products.	230	67	5,538	20,516	2,712	5,911	8,828	44,053	128,950	3,487	( <sup>3</sup> )	( <sup>3</sup> )
2033	Canned fruits and vegeta- bles.....	59	34	1,980	4,615	1,761	3,100	3,512	8,511	22,248	1,297	3,241	11,513
2035	Pickles and sauces.....	16	7	554	1,528	471	931	1,135	2,281	6,339	189	466	1,417
2037	Frozen fruits & vegetables	9	5	886	2,047	803	1,274	1,604	3,432	7,532	1,492	(D)	(D)
204	Grain mill products.....	169	50	3,665	13,693	2,633	6,057	9,428	33,976	( <sup>2</sup> )	2,407	3,941	31,223
2041	Flour and meal.....	49	22	1,734	7,021	1,275	3,006	5,197	19,433	103,005	574	2,109	17,753
2042	Prepared animal feeds.....	116	27	1,873	6,458	1,318	2,968	4,108	14,172	55,707	(D)	1,758	12,511
205	Bakery products.....	287	82	7,290	26,014	4,831	9,929	14,737	50,077	( <sup>2</sup> )	2,412	6,771	31,280
2051	Bread and related products..	281	78	6,090	22,031	3,844	7,939	11,703	40,440	79,113	2,069	(D)	(D)
2052	Biscuit and crackers.....	6	4	1,200	3,983	987	1,989	3,034	9,636	18,726	342	(D)	(D)
208	Beverages.....	237	43	3,895	15,245	2,266	4,278	7,356	41,493	( <sup>2</sup> )	3,573	3,425	24,318
2082	Beer and ale.....	17	14	1,418	6,682	990	2,031	4,270	23,101	43,559	2,047	1,417	13,253
209	Miscellaneous foods.....	180	38	2,859	8,599	2,142	3,915	5,201	18,431	( <sup>2</sup> )	1,488	3,314	15,147
2095	Flavorings.....	6	1	109	424	77	160	249	999	2,353	(D)	60	928
2097	Manufactured ice.....	55	16	806	2,601	545	1,033	1,464	5,312	6,665	728	2,107	9,105
2099	Food preparations, nec.....	111	16	1,731	4,789	1,354	2,340	2,961	9,922	24,318	580	920	4,002
22	Textile mill products,..	11	7	379	1,133	318	652	786	1,515	( <sup>2</sup> )	43	633	1,604
225	Knitting mills.....	6	3	282	827	239	490	587	1,115	( <sup>2</sup> )	33	428	950
23	Apparel & related prod- ucts.....	192	54	4,546	10,220	3,980	7,159	7,732	16,539	( <sup>2</sup> )	392	3,244	9,824
231	Men's and boys' suits and coats.....	4	3	206	513	191	353	407	559	( <sup>2</sup> )	3	412	1,646
232	Men's & boys' furnishings.	21	10	1,248	3,089	1,022	1,903	2,048	3,540	( <sup>2</sup> )	86	1,232	3,669
2321	Men's dress shirts & night- wear.....	5	3	403	1,033	273	485	494	1,108	2,443	19	(D)	(D)
2329	Men's & boys' clothing, nec.	5	3	502	1,223	442	871	961	1,210	4,346	16	535	1,708
233	Women's and misses' outer- wear.....	50	20	1,322	2,945	1,178	2,153	2,319	5,284	( <sup>2</sup> )	65	628	1,816
2333	Dresses, unit price.....	22	9	447	935	389	669	753	1,470	2,569	32	(D)	(D)
2337	Women's suits, coats, and skirts.....	8	4	245	550	217	407	403	1,012	1,640	5	1,640	5
2339	Women's outerwear, nec.....	7	3	172	432	151	305	326	805	1,460	9	96	261
234	Women's undergarments.....	7	5	552	1,051	525	1,001	966	1,991	( <sup>2</sup> )	19	216	532
238	Miscellaneous apparel.....	19	5	384	695	357	524	578	1,727	( <sup>2</sup> )	110	91	135
2386	Leather and sheep-lined clothing.....	9	3	164	241	157	175	209	733	1,413	(D)	(D)	(D)
239	Fabricated textiles, nec.,	80	10	723	1,804	603	1,104	1,297	3,205	( <sup>2</sup> )	105	585	1,829
2392	Housefurnishings, nec.....	9	2	123	256	109	180	200	708	1,235	8	(D)	(D)
2393	Textile bags.....	4	2	122	305	98	173	216	627	2,944	32	(D)	(D)
2394	Canvas products.....	32	4	253	793	192	384	495	2,447	35	229	756	289
2399	Textile products, nec.....	18	1	144	305	135	252	269	691	1,337	10	107	289
24	Lumber and wood products	1,618	261	27,418	102,457	24,947	47,791	88,674	172,093	( <sup>2</sup> )	19,712	( <sup>3</sup> )	( <sup>3</sup> )
2411	Logging camps and contrac- tors.....	467	36	4,072	15,592	3,746	6,568	13,468	26,690	46,770	3,522	( <sup>3</sup> )	( <sup>3</sup> )
242	Lumber and basic products.	938	184	19,734	73,580	18,099	35,111	64,641	125,079	( <sup>2</sup> )	15,289	17,251	84,007
2421	Sawmills and planing mills..	927	182	19,615	73,230	17,990	34,984	64,327	124,393	257,354	15,224	17,117	83,525
243	Millwork and related prod- ucts.....	140	23	2,208	8,750	1,926	3,813	7,185	13,179	( <sup>2</sup> )	549	2,103	8,526
2431	Millwork plants.....	136	23	2,195	8,709	1,914	3,792	7,151	13,117	34,196	549	1,935	(D)

See footnotes at end of table.



## GEOGRAPHIC DIVISIONS

10-65

## Mountain

Table 2.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Code	Industry group and industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manu- facture (\$1,000)	Value of ship- ments (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
24	Lumber and wood products—Continued												
244	Wooden containers.....	29	8	675	2,107	558	1,067	1,509	3,057	(2)	205	536	2,188
249	Miscellaneous wood products.....	44	10	727	2,428	615	1,230	1,870	4,087	(2)	144	1,040	5,817
2491	Wood preserving.....	21	9	605	2,073	508	994	1,583	3,460	8,140	75	917	5,488
2499	Wood products, nec.....	19	1	105	310	91	202	247	560	1,178	(D)	123	329
25	Furniture and fixtures..	232	26	1,819	6,716	1,531	3,062	4,826	11,130	(2)	310	1,593	5,761
251	Household furniture.....	133	18	1,143	4,138	1,023	2,057	3,074	7,204	(2)	212	944	3,515
2511	Wood furniture, not uphstd.	58	1	252	740	208	397	577	1,159	2,366	91	187	422
2512	Uphlstd. household furniture	31	10	460	1,854	473	989	1,469	2,905	6,318	36	361	1,568
2515	Mattresses and bedsprings...	39	7	411	1,478	325	642	971	2,956	6,652	78	396	1,525
2541	Partitions and fixtures...	47	5	325	1,367	260	505	1,039	2,152	3,858	52	517	1,635
2563	Venetian blinds.....	34	2	194	566	123	231	287	757	1,526	(D)	89	370
26	Pulp, paper and products	28	16	1,548	6,495	1,284	2,659	4,910	17,565	(2)	2,928	782	4,758
267	Paperboard containers.....	13	9	500	1,774	400	804	1,234	3,608	(2)	479	523	2,852
27	Printing and publishing..	973	124	14,725	58,561	9,367	17,547	37,181	102,449	(2)	6,137	11,842	59,784
2711	Newspapers.....	470	75	9,703	39,025	5,664	10,388	23,564	70,212	98,317	4,005	7,492	41,392
2721	Periodicals.....	51	2	588	2,044	316	538	1,025	4,231	5,677	70	808	2,983
2741	Miscellaneous publishing..	20	3	252	840	129	233	365	1,616	2,079	15	63	312
2751	Commercial printing.....	275	27	2,446	9,513	1,905	3,666	7,145	14,390	22,280	947	2,423	10,027
2761	Lithographing.....	60	10	1,012	4,388	806	1,682	3,115	7,169	10,854	721	560	2,830
278	Bookbinding and related inds.....	21	2	164	472	145	277	361	747	(2)	35	134	447
2781	Bookbinding.....	16	2	124	360	112	221	284	569	727	27	(D)	(D)
279	Printing trade services...	59	3	452	1,990	326	625	1,393	3,383	(2)	266	328	1,667
2791	Typesetting.....	13	1	105	448	83	145	366	777	887	131	52	305
2792	Engraving and plate printing	12	1	127	433	85	179	244	813	1,067	(D)	117	361
2793	Photoengraving.....	31	1	212	1,100	150	288	773	1,754	2,255	55	159	1,001
28	Chemicals and products..	218	67	13,988	67,500	8,131	16,573	34,270	158,860	(2)	11,967	3,864	29,059
281	Inorganic chemicals.....	20	14	8,718	44,989	4,545	9,021	20,638	100,651	(2)	6,239	734	5,772
2819	Inorganic chemicals, nec....	16	10	8,193	42,728	4,169	8,271	19,103	94,040	112,730	5,496	(D)	(D)
2826	Explosives.....	5	5	775	3,398	661	1,268	2,723	7,715	14,966	204	(D)	(D)
284	Soap and related products.	22	2	189	784	92	158	215	1,201	(2)	29	88	683
285	Paints and allied products	19	8	451	1,964	267	506	913	3,944	(2)	118	368	2,069
287	Fertilizers.....	19	5	730	3,108	435	929	1,777	3,754	(2)	1,279	(D)	(D)
2871	Fertilizers.....	6	3	531	2,311	327	737	1,491	2,908	8,368	(D)	(D)	(D)
2872	Fertilizers, mixing only....	13	2	199	797	107	192	285	846	2,680	(D)	(D)	(D)
288	Vegetable and animal oils.	35	13	1,133	4,558	892	2,149	3,182	14,246	(2)	1,036	644	6,108
2886	Grease and tallow.....	22	3	266	1,032	193	463	688	2,585	4,999	173	292	2,308
289	Chemical products, nec....	78	15	1,620	7,192	1,054	2,179	4,188	22,044	(2)	1,194	892	7,265
2896	Compressed & liquefied gases	31	6	427	1,753	237	514	900	3,208	4,280	761	277	1,797
2897	Insecticides & fungicides...	14	2	691	3,272	412	819	1,669	12,049	21,315	(D)	185	1,915
29	Petroleum and coal products.....	64	42	7,009	35,311	5,224	10,428	25,193	102,381	(2)	21,542	5,470	52,093
2911	Petroleum refining.....	48	33	5,525	28,828	4,029	8,078	20,310	83,727	384,043	16,771	(D)	(D)
295	Paving & roofing materials	11	5	310	1,151	233	469	776	1,491	(2)	396	122	781
2952	Roofing felts and coatings..	5	4	238	906	186	386	627	912	3,192	202	74	469
30	Rubber products.....	13	4	5,310	(D)	3,836	(D)	(D)	(D)	(D)	(D)	(D)	(D)
31	Leather & leather goods.	47	9	1,983	8,719	1,602	3,723	6,390	18,507	(2)	613	1,319	4,811
32	Stone, clay, and glass products.....	356	89	8,085	31,563	6,673	13,700	24,036	75,671	(2)	5,808	6,345	31,891
3241	Cement, hydraulic.....	8	8	1,400	5,820	1,198	2,455	4,676	23,176	32,167	1,398	1,019	8,407
325	Structural clay products..	45	29	2,009	7,351	1,697	3,469	5,644	11,627	(2)	893	1,746	6,200
3251	Brick and hollow tile.....	33	22	1,492	5,507	1,247	2,579	4,179	8,884	12,027	605	909	3,279
3255	Clay refractories.....	5	4	336	1,131	290	562	925	1,766	2,611	147	(D)	(D)
326	Pottery & related products	21	2	436	1,637	389	766	1,330	2,150	(2)	(D)	(D)	(D)
3269	Pottery products, nec.....	21	2	436	1,637	389	766	1,330	2,150	2,996	(D)	(D)	(D)

See footnotes at end of table.

## MANUFACTURES--AREA STATISTICS

## Mountain

Table 2.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Code	Industry group and industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manu- facture (\$1,000)	Value of ship- ments (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
32	Stone, clay, and glass products--Continued												
327	Concrete and plaster products.....	214	43	3,463	13,564	2,751	5,713	9,852	27,627	(2)	2,619	2,716	13,609
3271	Concrete products.....	191	27	2,076	7,722	1,566	3,047	5,058	12,649	23,516	1,551	1,814	7,927
3272	Gypsum products.....	9	6	911	4,144	772	1,823	3,352	12,486	22,040	788	580	4,069
3274	Lime.....	10	7	319	1,196	284	602	1,053	1,710	4,461	260	200	1,175
3275	Mineral wool.....	4	3	157	502	129	241	388	780	1,492	19	122	438
329	Nonmet. mineral prod., nec.....	32	6	588	2,505	483	1,001	2,032	9,942	(2)	233	(D)	(D)
3295	Minerals: ground or treated.	12	2	253	1,090	203	417	913	6,791	9,606	(D)	(D)	(D)
3297	Nonclay refractories.....	6	4	272	1,227	228	489	988	2,730	5,495	116	(D)	(D)
33	Primary metal industries	101	57	27,045	117,915	22,843	44,338	94,992	264,983	(2)	18,822	23,094	134,273
332	Iron and steel foundries..	34	17	2,216	8,632	1,941	3,793	7,156	14,760	(2)	2,235	2,146	8,477
3321	Gray-iron foundries.....	29	14	1,653	6,602	1,440	2,822	5,413	11,966	22,430	2,091	(D)	(D)
333	Primary nonferrous metals.	29	27	11,398	48,707	9,495	18,356	38,232	145,269	(2)	6,321	9,785	74,768
3361	Nonferrous foundries.....	20	3	241	839	211	399	683	1,363	2,865	111	287	1,303
34	Fabricated metal products.....	329	80	6,914	28,154	5,207	10,457	19,308	45,281	(2)	3,132	4,361	22,460
3411	Tin cans and other tinware	3	3	223	948	178	368	685	495	6,164	695	(D)	(D)
342	Cutlery, tools, & hardware	22	5	315	1,005	276	523	675	1,986	(2)	24	551	2,108
3429	Hardware, nec.....	8	3	136	469	120	253	271	1,030	1,416	14	427	1,604
343	Heating and plumbing equipment.....	11	2	126	489	99	183	336	546	(2)	15	159	713
3439	Heating and cooking equip., nec. (inc. Ind. 3432).....	11	2	126	489	99	183	336	546	1,239	15	(D)	(D)
344	Structural metal products.	221	59	5,557	23,179	4,105	8,360	15,921	37,633	(2)	2,146	3,032	16,320
3441	Structural & ornamental work	84	27	2,457	9,563	1,829	3,833	6,854	15,038	34,188	644	1,336	7,903
3442	Metal doors, sash, and trim..	26	6	540	2,224	412	830	1,536	3,389	7,709	266	(D)	(D)
3443	Boiler shop products.....	21	13	1,375	6,465	1,001	2,093	4,296	11,797	25,983	850	833	3,742
3444	Sheet-metal work.....	90	13	1,185	4,927	861	1,603	3,235	7,408	16,571	384	(D)	(D)
346	Metal stamping and coating	30	4	265	850	218	444	672	1,328	(2)	90	61	243
3463	Metal stampings.....	9	3	126	387	107	210	306	651	1,121	29	(D)	(D)
3468	Plating and polishing.....	15	1	124	432	99	216	338	616	870	59	(D)	(D)
348	Fabricated wire products..	14	3	135	507	114	161	255	796	(2)	81	63	294
3489	Wirework, nec.....	14	3	135	507	114	161	255	796	1,950	81	63	294
349	Metal products, nec.....	21	3	215	888	157	304	583	1,956	(2)	66	166	1,093
3499	Fabricated metal prod., nec.	15	3	170	676	120	220	416	1,523	2,979	62	(D)	(D)
35	Machinery, except electrical.....	322	66	7,857	32,621	5,900	11,847	21,535	54,989	(2)	2,968	6,075	29,548
352	Tractors & farm machinery.	52	7	552	2,063	417	813	1,338	3,721	(2)	181	721	3,991
353	Construction and mining machinery.....	34	16	3,333	14,953	2,289	4,640	8,870	25,179	(2)	1,080	2,175	11,487
3531	Construction & mining mach..	26	14	2,864	12,642	2,006	4,017	7,749	20,945	36,140	1,047	(D)	(D)
3532	Oil-field mach. and tools...	8	2	469	2,311	282	623	1,121	4,234	8,909	32	(D)	(D)
354	Metalworking machinery....	25	1	156	607	133	281	495	969	(2)	103	88	365
3544	Special dies and tools.....	17	1	122	513	108	226	429	791	981	83	(NA)	(NA)
355	Special-industry machinery, nec.....	21	3	428	1,826	341	656	1,243	2,921	(2)	106	1,294	4,805
3551	Food-products machinery....	7	2	337	1,421	274	518	983	2,272	3,862	106	466	1,902
3561	Pumps and compressors.....	7	4	149	526	111	217	352	1,324	2,706	31	(D)	(D)
3566	Power-transmission equipment.....	7	5	307	1,353	233	464	870	2,211	3,719	122	196	(D)
358	Service and household machines.....	21	6	1,001	3,536	811	1,611	2,689	5,305	(2)	374	477	2,507
3585	Refrigeration machinery....	11	4	828	2,880	682	1,365	2,288	4,044	(2)	277	(D)	(D)
3599	Machine shops.....	123	19	1,430	5,473	1,205	2,463	4,352	8,519	13,917	864	346	1,792
36	Electrical machinery....	36	10	1,134	3,732	954	1,816	2,762	6,258	(2)	370	507	1,864
361	Elec. industrial apparatus	9	5	718	2,308	616	1,203	1,704	3,405	(2)	104	198	827
366	Communication equipment...	9	1	192	706	162	309	556	1,477	2,112	38	(D)	(D)
369	Electrical products, nec...	14	3	179	586	141	249	419	1,186	3,342	216	(D)	(D)

See footnotes at end of table.



## GEOGRAPHIC DIVISIONS

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## Mountain

Table 2.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Code	Industry group and industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
37	Transportation equipment	62	20	7,394	36,007	6,201	13,172	28,781	49,952	(2)	1,023	1,114	5,229
371	Motor vehicles & equipment	39	11	890	3,369	693	1,360	2,242	5,147	(2)	152	(D)	(D)
3713	Truck and bus bodies.....	10	2	151	575	123	251	424	801	1,529	29	311	1,251
3715	Truck trailers.....	4	3	237	1,084	169	322	645	1,609	3,419	19	(D)	(D)
3717	Motor vehicles and parts....	19	5	437	1,459	344	677	1,015	2,198	(2)	74	(D)	(D)
372	Aircraft and parts.....	15	8	6,454	32,455	5,461	11,725	26,375	44,452	(2)	850	36	141
38	Instruments and related products.....	58	7	863	3,049	644	1,152	1,984	5,175	(2)	241	399	1,902
384	Medical equip. & supplies.	33	4	311	1,191	221	429	676	2,123	(2)	121	(D)	(D)
3842	Surgical appliances and supplies.....	21	2	172	645	125	242	384	1,197	1,978	56	59	223
3861	Photographic equipment....	8	2	417	1,306	316	517	908	2,280	3,085	64	(D)	(D)
39	Miscellaneous manufactures <sup>4</sup> .....	287	47	5,049	(D)	4,009	(D)	(D)	(D)	(D)	(D)	(D)	(D)
391	Jewelry and silverware....	31	3	435	1,171	382	679	867	1,766	(2)	38	309	1,108
3911	Jewelry (precious metal)....	25	3	395	1,078	347	618	793	1,640	2,699	35	295	1,053
394	Toys and sporting goods...	43	9	1,019	2,721	936	1,905	2,336	5,085	(2)	194	895	2,507
3949	Sporting and athletic goods.	29	9	962	2,551	888	1,842	2,266	4,846	8,475	181	837	2,392
395	Office supplies.....	10	4	210	937	135	304	462	1,207	(2)	52	117	331
396	Costume jewelry & notions.	15	2	110	288	101	210	242	426	(2)	33	(D)	(D)
398	} Miscellaneous manufactures <sup>4</sup> .....	164	24	2,932	12,130	2,156	4,370	7,536	20,781	(2)	1,734	(D)	(D)
399													
3981	Brooms and brushes.....	12	1	151	479	127	241	358	691	1,449	8	176	474
3988	Morticians' goods.....	10	1	120	513	95	185	315	768	1,727	12	110	503
3993	Signs & advertising displays	103	13	888	3,556	660	1,226	2,173	5,705	8,383	285	714	3,480
19--	Ordnance and accessories....	17	7	1,606	6,973	1,167	2,510	4,387	12,242	(2)	1,403	(D)	(D)

Note: Detailed figures may not add to total. D Withheld to avoid disclosing figures for individual companies. NA Not available.

<sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industries (4-digit) and industry groups (3-digit) are not shown. Industries and industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "all industries" line. <sup>2</sup>The total value of shipments figures for industry groups and a few individual industries have not been published due to the extensive and unmeasurable duplication arising from shipments from one establishment to another in the same industry classification. (See Introduction.) <sup>3</sup>Comparable data for major groups 20 and 24 are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude establishments in S.I.C. Industry 2411, Logging Camps and Contractors, which are included in the scope of the 1954 Census; the 1947 Census also excludes plants processing and distributing fluid milk which in 1954 were classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
20	All industries except subgroups 202 and 2411, total.....	174,472	1,408,032	5,852	762,599
24	Food and kindred products except subgroup 202, Dairy products.....	35,471	254,765	36,958	222,418
24	Lumber and wood products except Industry 2411, Logging camps and contractors.....	23,346	145,403	20,930	100,538

<sup>4</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)

## MANUFACTURES—AREA STATISTICS

10-68

## Mountain

Table 3.—DISTRIBUTION OF OPERATING MANUFACTURING ESTABLISHMENTS BY EMPLOYMENT SIZE GROUPS AND MAJOR INDUSTRY GROUPS, FOR THE DIVISION: 1954

20 Food and kindred products	26 Pulp paper and products	32 Stone, clay, and glass products	38 Instruments and related products
21 Tobacco manufactures	27 Printing and publishing	33 Primary metal industries	39 Miscellaneous manufactures (includes Group 19)
22 Textile mill products	28 Chemicals and products	34 Fabricated metal products	Ordnance and accessories)
23 Apparel and related products	29 Petroleum and coal products	35 Machinery, except electrical	
24 Lumber and wood products	30 Rubber products	36 Electrical machinery	
25 Furniture and fixtures	31 Leather and leather goods products	37 Transportation equipment	

Size group	Establishments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Mountain Division, total.....	6,685	1,738	...	11	192	1,618	232	28	973	218	64	13	47	356	101	329	322	36	62	58	287
1 to 4 employees.....	3,077	589	...	2	92	875	145	5	510	83	8	4	29	177	15	149	160	13	29	35	157
5 to 9 employees.....	1,222	361	...	1	26	274	40	3	211	35	3	3	7	52	15	60	57	8	6	12	48
10 to 19 employees.....	919	307	...	1	20	208	21	4	128	33	11	2	2	38	14	40	39	5	7	4	35
20 to 49 employees.....	798	265	...	4	26	161	21	9	77	31	10	1	8	48	7	49	40	5	7	3	26
50 to 99 employees.....	329	121	...	2	17	52	5	3	22	17	13	...	...	19	9	16	10	2	6	2	13
100 to 249 employees.....	233	82	...	1	9	33	...	3	17	9	11	...	...	18	17	12	10	2	3	1	...
250 to 499 employees.....	65	7	...	...	2	11	...	...	5	7	5	1	...	4	12	3	3	1	1	1	...
500 to 999 employees.....	28	6	...	...	...	3	...	1	2	1	3	1	...	...	7	...	3	...	...	...	...
1,000 to 2,499 employees.....	10	...	...	...	...	1	...	...	1	1	...	...	1	...	3	...	...	...	3	...	...
2,500 employees and over.....	4	...	...	...	...	...	...	...	...	1	...	1	...	...	2	...	...	...	...	...	...



## GEOGRAPHIC DIVISIONS

## Pacific

Table 1A.—MANUFACTURING EMPLOYMENT AT OPERATING ESTABLISHMENTS AND CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARIES FOR THE DIVISION: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Year <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	(Number)	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
Pacific Division:						
1954.....	1,382,265	6,223,711	1,354,481	6,047,958	27,784	175,753
1953 <sup>2</sup> .....	1,381,395	6,083,714	1,358,954	5,964,162	22,441	119,552
1952 <sup>2</sup> .....	1,283,517	5,346,241	1,260,175	5,236,957	<sup>3</sup> 23,342	<sup>3</sup> 109,284
1951 <sup>2</sup> .....	1,183,671	4,638,686	1,160,329	4,529,402	23,342	109,284
1950 <sup>2</sup> .....	1,037,169	3,654,507	1,018,087	3,575,727	19,082	78,780
1949 <sup>2</sup> .....	941,767	3,199,830	923,120	3,115,634	18,647	84,196

Note: Pacific Division consists of: Washington, Oregon and California.

<sup>1</sup>Employment data for administrative offices and auxiliaries are not available for the years prior to 1949.<sup>2</sup>The employment figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period. The employment figures for administrative and auxiliary units were compiled chiefly from Bureau of Old-Age and Survivors Insurance records and are not strictly comparable with the figures for these units that were collected by the Bureau of the Census for the year 1954.<sup>3</sup>The 1951 data are shown for 1952 since auxiliary and administrative unit data were not collected in 1952.

Table 1B.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS IN THE DIVISION: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Division and year	Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)	Horse power of prime movers and electric motors <sup>1</sup> (1,000 hp)
		Number	Payroll (\$1,000)	Number	Man-hours (\$1,000)	Wages (\$1,000)			
Pacific:									
1954 <sup>2</sup> .....	35,308	1,354,481	6,047,958	1,035,020	2,027,074	4,186,203	11,183,970	764,743	10,051
1953 <sup>3</sup> .....		1,358,954	5,964,162	1,062,786	2,108,957	4,266,681	10,620,983	662,876	
1952 <sup>3</sup> .....		1,260,175	5,236,957	992,056	1,966,435	3,796,655	9,459,239	662,170	
1951 <sup>3</sup> .....	(NA)	1,160,329	4,529,402	920,344	1,826,938	3,311,189	8,423,245	680,178	(NA)
1950 <sup>3</sup> .....		1,018,087	3,575,727	804,465	1,577,647	2,598,278	7,041,285		
1949 <sup>3</sup> .....		923,120	3,115,634	733,692	1,429,295	2,249,729	5,727,800	(NA)	
1947.....	24,132	913,715	2,820,152	745,869		2,139,537	5,544,019	553,678	
1939.....	16,319	523,439	764,247	411,038		536,528	1,546,957		3,314
1929.....	18,154	555,534	909,964	471,246	(NA)	670,599	1,922,882	(NA)	
1919.....	17,116	485,308	685,090	426,005		568,266	1,263,163		
1909.....	13,579	242,576	190,638	213,166		153,809	349,833		(NA)
1899.....	8,329	133,329	74,558	123,206		63,777	140,849		

NA Not available.

<sup>1</sup>Driven by purchased electricity.<sup>2</sup>The 1954 figures include data for establishments engaged in the processing and distribution of fluid milk, Industry Group 202, Dairy Products. These establishments were not included in the figures for the Annual Survey years 1949-1953 or earlier Census years. In addition, the 1954 Census and Annual Survey years include data for Logging Camps and Contractors, Industry 2411, which were not included within the scope of the 1947 Census and earlier Censuses. See footnotes to Table 2 for comparable 1954 and 1947 totals. There were also a number of changes in the definition of manufacturing industries during earlier Census years that affect the comparability of the historical series. Among the more important of these were: figures for 1935 and later years exclude data for "railroad repair shops" and "manufactured gas" which were included in 1899-1933 figures; the minimum size of establishment included for 1954 and 1947 was one employee, for 1939-1921 manufacturing establishments reporting value of shipments of \$5,000 or more were within scope whereas for 1919 and earlier years the cut-off was \$500. (This change in procedure has not appreciably affected the comparability of the historical data except for the figures on number of establishments.)<sup>3</sup>The employment and payroll figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period.

## MANUFACTURES—AREA STATISTICS

## Pacific

Table 2.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Code	Industry group and industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
	All industries, total <sup>1</sup>	35,308	8,990	1,354,481	6,047,958	1,035,020	2,027,074	4,186,203	11,183,970	( <sup>2</sup> )	764,743	( <sup>3</sup> )	( <sup>3</sup> )
20	Food & kindred products.	4,414	1,620	190,183	768,784	135,152	262,116	476,290	1,762,172	( <sup>2</sup> )	127,495	( <sup>3</sup> )	( <sup>3</sup> )
201	Meat products.....	595	212	24,093	102,945	18,136	36,452	70,937	169,095	( <sup>2</sup> )	9,515	18,891	96,104
2011	Meat packing plants.....	244	106	14,988	70,326	10,687	22,311	47,251	106,196	( <sup>2</sup> )	5,899	14,031	69,842
2013	Prepared meats.....	147	44	4,295	18,809	3,091	6,228	12,103	33,932	( <sup>2</sup> )	1,717	(NA)	(NA)
2015	Poultry dressing plants.....	204	62	4,809	13,810	4,356	7,913	11,582	28,967	145,893	1,899	1,834	7,441
202	Dairy products.....	731	274	26,843	118,639	12,622	25,493	50,196	234,485	( <sup>2</sup> )	10,105	( <sup>3</sup> )	( <sup>3</sup> )
2021	Creamery butter.....	57	15	919	3,404	696	1,323	2,469	5,940	42,020	279	( <sup>3</sup> )	( <sup>3</sup> )
2022	Natural cheese.....	46	11	742	2,822	579	1,152	2,012	5,051	27,206	365	( <sup>3</sup> )	( <sup>3</sup> )
2023	Concentrated milk.....	41	22	1,614	6,439	1,190	2,308	4,460	19,521	82,829	661	( <sup>3</sup> )	( <sup>3</sup> )
2024	Ice cream and ices.....	145	29	2,743	10,969	1,422	2,781	5,251	21,860	53,881	1,334	( <sup>3</sup> )	( <sup>3</sup> )
2025	Special dairy products.....	14	4	265	1,205	200	347	694	2,392	9,311	75	( <sup>3</sup> )	( <sup>3</sup> )
2026	Fluid milk.....	101	14	1,364	5,566	710	1,445	2,500	8,140	27,843	417	( <sup>3</sup> )	( <sup>3</sup> )
2027	Fluid milk & other products.	327	179	19,194	88,231	7,823	16,134	32,806	171,578	543,964	6,970	( <sup>3</sup> )	( <sup>3</sup> )
2031	Canned seafood .....	95	57	7,873	24,460	7,296	11,085	20,610	48,345	180,101	1,207	11,139	69,271
2032	Cured fish .....	13	4	244	929	173	302	509	1,910	5,077	45	(D)	(D)
2033	Canned fruits and vegetables.....	305	182	31,954	109,874	28,253	55,611	89,969	287,641	707,087	17,025	36,676	206,682
2035	Pickles and sauces.....	113	27	2,901	10,940	2,332	4,742	7,789	30,648	99,698	2,146	3,134	24,442
2036	Packaged seafood.....	40	16	1,131	3,470	1,023	1,716	2,846	4,291	18,571	211	6,434	(D)
2037	Frozen fruits & vegetables	101	75	8,363	24,901	7,280	13,776	19,504	62,709	166,150	3,442		
204	Grain mill products.....	327	125	10,955	48,048	7,773	16,230	31,276	140,989	( <sup>2</sup> )	5,356	10,691	96,007
2041	Flour and meal.....	40	24	2,742	12,125	2,046	4,248	8,692	33,418	180,333	957	3,301	34,994
2042	Prepared animal feeds.....	247	85	6,525	28,225	4,370	9,167	17,152	72,949	311,667	3,183	6,452	47,262
2044	Rice milling.....	8	7	505	2,352	406	864	1,562	9,259	67,064	465	444	8,971
205	Bakery products.....	600	207	27,325	124,111	16,032	30,768	60,835	217,741	( <sup>2</sup> )	8,120	23,160	137,022
2051	Bread and related products..	567	186	23,504	110,395	13,056	24,896	51,522	176,591	328,338	7,009	(D)	(D)
2052	Biscuit and crackers.....	33	21	3,821	13,716	2,975	5,872	9,313	41,150	74,768	1,110	(D)	(D)
2072	Chocolate & cocoa products	4	2	222	957	175	298	590	2,306	10,497	93	(D)	(D)
208	Beverages.....	498	145	17,335	82,750	10,645	20,229	44,778	251,763	( <sup>2</sup> )	51,170	16,538	185,154
2082	Beer and ale.....	26	23	7,486	41,958	4,994	10,228	26,725	114,268	207,467	46,446	5,747	67,665
2083	Malt.....	3	2	107	612	77	162	413	2,439	9,128	144	(D)	(D)
2085	Distilled liquor.....	12	5	426	1,593	363	633	1,161	16,809	24,317	55	(D)	(D)
209	Miscellaneous foods.....	685	167	14,478	58,478	9,407	18,103	31,348	181,578	( <sup>2</sup> )	9,582	15,594	128,591
2091	Leavening compounds.....	4	3	120	559	95	182	434	1,657	2,683	170	(D)	(D)
2092	Shortening and cooking oils.	30	6	1,167	5,818	796	1,595	3,584	16,760	104,160	1,243	(D)	(D)
2093	Margarine.....	5	4	225	1,000	183	370	823	5,291	16,645	263	(D)	(D)
2095	Flavorings.....	65	16	7,716	7,714	1,016	1,920	3,494	24,613	58,754	(D)	2,254	17,870
2097	Manufactured ice.....	152	37	2,080	8,320	1,249	2,416	4,340	15,774	19,159	2,182	5,338	28,575
2099	Food preparations, nec.....	371	84	8,244	31,603	5,384	10,233	16,482	110,353	447,718	4,416	5,972	51,950
21	Tobacco manufactures....	14	3	357	1,001	296	481	694	1,453	( <sup>2</sup> )	49	(D)	(D)
22	Textile mill products...	225	79	8,721	32,290	7,187	14,260	22,941	56,917	( <sup>2</sup> )	2,773	8,965	47,823
225	Knitting mills.....	84	20	2,722	9,832	2,081	4,017	5,896	15,401	( <sup>2</sup> )	572	2,950	13,699
2251	Full-fashioned hosiery mills	15	6	435	1,504	373	759	1,195	3,279	( <sup>2</sup> )	13	440	2,086
227	Carpets and rugs.....	36	11	1,567	5,993	1,299	2,572	4,562	12,302	( <sup>2</sup> )	863	(D)	(D)
2273	Carpets & rugs, except wool.	29	9	820	2,680	683	1,426	1,952	5,218	14,037	161	(D)	(D)
228	Hats, except cloth and millinery.....	7	1	103	339	81	142	190	466	( <sup>2</sup> )	3	(D)	(D)
2291	Felt goods, nec.....	6	3	461	2,182	381	933	1,704	4,729	8,841	227	(D)	(D)
2293	Padding & upholstery filling.....	20	11	620	2,329	515	996	1,688	4,324	11,958	172	376	2,300
2298	Cordage and twine.....	13	7	496	1,786	403	760	1,140	3,650	7,387	(D)	(D)	(D)
23	Apparel & related products.....	2,386	791	61,610	182,480	54,195	96,083	140,079	312,171	( <sup>2</sup> )	5,592	47,805	206,770
231	Men's and boys' suits and coats.....	76	38	3,440	11,499	3,097	5,488	9,350	16,263	( <sup>2</sup> )	122	3,480	14,420
232	Men's & boys' furnishings.	318	145	12,998	35,092	11,697	20,594	27,655	69,058	( <sup>2</sup> )	1,073	9,760	37,162
2321	Men's dress shirts and nightwear.....	105	72	5,467	14,260	5,009	8,768	11,731	22,447	46,318	490	(D)	(D)
2323	Men's and boys' neckwear....	35	8	475	1,412	401	719	993	2,351	4,782	18	363	1,540
2329	Men's & boys' clothing, nec.	95	51	4,426	11,703	3,992	6,913	9,180	32,512	57,071	423	3,606	13,332
233	Women's and misses' outerwear.....	913	371	25,949	79,634	22,947	39,922	61,735	138,917	( <sup>2</sup> )	1,663	20,296	94,017
2333	Dresses, unit price.....	275	101	6,270	18,219	5,646	9,692	14,803	30,371	56,486	291	(D)	(D)
2337	Women's suits, coats, and skirts.....	313	136	8,898	30,655	7,782	13,131	23,551	55,282	114,719	448	(D)	(D)
2339	Women's outerwear, nec.....	118	63	6,215	19,582	5,365	10,079	14,240	37,112	69,688	693	2,845	11,787

See footnotes at end of table.



GEOGRAPHIC DIVISIONS  
Pacific

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Table 2.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Code	Industry group and industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manu- facture (\$1,000)	Value of ship- ments (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
23	Apparel and related products—Continued												
234	Women's undergarments.....	90	43	3,534	10,363	3,049	5,505	7,220	17,348	( <sup>2</sup> )	539	3,056	12,264
2361	Children's dresses.....	68	19	1,529	3,912	1,364	2,395	3,239	5,918	12,939	61	(D)	(D)
2363	Children's coats.....	22	6	302	929	280	472	845	1,755	3,947	24	143	700
238	Miscellaneous apparel.....	109	32	2,303	6,981	1,989	3,670	5,198	10,727	( <sup>2</sup> )	141	2,159	8,873
2386	Leather and sheep-lined clothing.....	30	11	859	2,950	738	1,350	2,085	4,188	9,592	(D)	464	(D)
239	Fabricated textiles, nec..	636	102	9,562	28,976	8,008	14,960	20,597	44,934	( <sup>2</sup> )	1,869	6,375	29,355
2392	Housefurnishings, nec.....	89	18	1,209	3,307	1,022	1,905	2,362	5,961	15,258	173	(D)	(D)
2393	Textile bags.....	20	13	1,751	6,185	1,370	2,684	4,233	9,181	32,986	428	(D)	(D)
2394	Canvas products.....	107	11	955	3,572	751	1,316	1,941	5,681	11,739	125	1,040	4,599
2398	Embroideries, except Schiffli.....	56	7	611	1,386	574	896	1,190	2,373	3,426	8	(D)	(D)
2399	Textile products, nec.....	146	17	1,497	4,369	1,241	2,378	3,134	7,239	15,406	538	969	3,884
24	Lumber and wood products	8,336	1,614	178,899	756,068	162,497	299,746	649,616	1,315,369	( <sup>2</sup> )	100,080	( <sup>3</sup> )	( <sup>3</sup> )
2411	Logging camps and contractors.....	4,046	280	29,050	116,290	26,678	44,482	99,651	226,284	436,533	29,871	( <sup>3</sup> )	( <sup>3</sup> )
242	Lumber and basic products.	2,923	933	101,316	429,777	92,163	169,659	370,442	748,681	( <sup>2</sup> )	56,068	97,265	651,149
2421	Sawmills and planing mills..	2,709	870	96,978	412,716	88,183	163,350	356,105	717,852	1,536,020	53,934	93,565	630,461
2423	Shingle mills.....	153	32	2,367	8,769	2,196	2,998	7,557	14,443	31,189	926	2,369	(D)
243	Millwork and related products.....	809	272	37,458	169,774	33,799	66,799	145,982	271,901	( <sup>2</sup> )	11,225	25,918	166,330
2431	Millwork plants.....	658	161	13,017	54,319	11,237	21,383	43,633	79,489	201,020	2,232	13,860	(D)
2432	Plywood plants.....	110	99	23,170	109,745	21,453	43,444	99,096	182,169	377,114	8,600	10,483	82,183
2433	Prefabricated wood products.	41	12	1,270	5,710	1,108	1,971	3,251	10,243	23,773	392	(D)	(D)
244	Wooden containers.....	193	53	5,457	20,087	4,950	9,308	17,511	32,114	( <sup>2</sup> )	1,462	5,359	27,094
2444	Wooden boxes.....	178	48	5,111	18,737	4,649	8,733	16,420	29,599	64,006	1,405	(D)	(D)
249	Miscellaneous wood products.....	365	73	5,615	20,138	4,905	9,497	16,028	36,388	( <sup>2</sup> )	1,452	4,508	24,679
2491	Wood preserving.....	27	18	1,063	4,654	880	1,741	3,491	8,363	24,566	387	1,378	10,933
2493	Mirror and picture frames...	47	4	320	936	272	550	741	1,657	2,886	15	181	735
2499	Wood products, nec.....	291	51	4,232	14,547	3,753	7,206	11,795	26,367	51,186	1,049	2,949	13,011
25	Furniture and fixtures..	1,571	318	27,240	108,934	22,904	43,935	82,543	183,109	( <sup>2</sup> )	4,449	25,119	120,142
251	Household furniture.....	1,002	229	20,856	82,020	17,690	33,931	62,939	137,698	( <sup>2</sup> )	3,036	19,152	88,453
2511	Wood furniture, not upholstd.	467	91	8,967	34,163	7,777	15,017	26,712	55,065	97,955	1,338	9,676	42,384
2512	Upholstd. household furniture	297	85	6,174	24,567	5,360	10,133	19,521	38,894	77,472	524	5,121	23,242
2514	Metal household furniture...	76	18	2,207	8,752	1,794	3,494	6,510	15,305	30,750	601	882	4,968
2515	Mattresses and bedsprings...	143	31	3,207	13,292	2,511	4,825	9,327	25,932	56,165	544	3,330	17,022
2519	Household furniture, nec....	19	4	299	1,244	246	461	866	2,499	4,506	27	(D)	(D)
2522	Metal office furniture....	16	6	297	1,097	242	439	811	2,024	3,700	(D)	96	(D)
253	Public and professional furniture.....	51	11	1,029	4,481	872	1,717	3,221	7,346	( <sup>2</sup> )	256	355	1,592
2531	Public-building furniture...	37	10	911	3,947	771	1,529	2,814	6,308	11,457	226	(D)	(D)
2532	Professional furniture.....	14	1	118	534	100	188	407	1,037	1,702	30	(D)	(D)
2541	Partitions and fixtures...	250	41	2,871	13,078	2,377	4,594	9,926	21,318	36,760	648	3,001	17,135
256	Screens, shades, & blinds.	199	18	1,598	5,736	1,214	2,235	3,678	11,093	( <sup>2</sup> )	361	(D)	(D)
2561	Window and door screens....	30	5	430	1,697	326	590	1,072	3,533	7,912	155	(D)	(D)
2562	Window shades.....	30	3	212	753	162	312	515	1,294	3,569	30	237	1,695
2563	Venetian blinds.....	139	10	956	3,286	726	1,331	2,090	6,266	15,505	175	1,404	6,002
26	Pulp, paper and products	465	273	42,573	190,424	35,398	71,575	150,362	468,304	( <sup>2</sup> )	79,003	29,555	253,033
2613	Building paper and board mills.....	17	14	1,637	7,131	1,395	2,735	5,896	13,853	30,606	1,020	805	5,039
2641	Paper coating and glazing.	22	9	1,331	6,302	936	1,875	4,101	12,770	34,606	1,053	1,102	8,167
267	Paperboard containers.....	140	81	9,913	42,813	8,135	16,643	33,212	78,427	( <sup>2</sup> )	8,442	6,641	38,344
269	Pulp, paper and products, nec.....	143	59	7,069	28,158	5,845	11,595	22,168	58,657	( <sup>2</sup> )	10,891	(D)	(D)
27	Printing and publishing.	3,408	520	65,221	306,356	37,941	69,252	175,499	511,387	( <sup>2</sup> )	17,942	53,080	328,055
2711	Newspapers.....	846	195	33,777	160,404	16,003	28,729	78,899	269,539	381,211	6,898	26,334	168,552
2721	Periodicals.....	219	17	1,702	7,460	318	595	1,488	16,994	28,777	289	2,082	17,090
273	Books.....	91	11	834	3,801	346	668	1,503	7,143	( <sup>2</sup> )	341	(D)	(D)
2731	Books; publishing & printing	49	5	490	2,237	56	108	251	4,591	7,606	148	(D)	(D)
2732	Book printing.....	42	6	344	1,564	290	559	1,252	2,552	4,094	193	119	677

See footnotes at end of table.

## MANUFACTURES—AREA STATISTICS

## Pacific

Table 2.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Code	Industry group and industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manu- facture (\$1,000)	Value of ship- ments (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
27	Printing and publishing— Continued												
2741	Miscellaneous publishing..	106	13	1,334	4,923	450	663	1,730	8,522	13,534	116	880	5,211
2751	Commercial printing.....	1,303	138	13,377	60,673	10,495	19,124	45,559	99,456	157,701	5,088	13,819	77,229
2761	Lithographing.....	381	77	7,858	39,863	5,519	10,380	25,419	62,156	110,846	3,516	4,024	26,467
2771	Greeting cards.....	29	4	652	2,446	411	820	1,326	4,643	6,877	192	(D)	(D)
278	Bookbinding and related industry.....	128	22	2,694	10,757	2,130	3,956	7,478	17,691	( <sup>2</sup> )	691	2,287	9,947
2781	Bookbinding.....	70	8	647	2,098	581	1,076	1,796	3,348	4,124	201	(D)	(D)
2783	Loose-leaf binders & devices	15	4	991	4,565	625	1,314	2,579	6,735	8,532	(D)	(D)	(D)
279	Printing trade services...	305	43	2,990	16,026	2,264	4,315	12,093	25,239	( <sup>2</sup> )	806	2,555	17,401
2791	Typesetting.....	133	10	938	4,939	757	1,434	3,834	7,574	8,724	312	627	3,954
2792	Engraving and plate printing	47	3	329	1,407	247	490	862	2,277	3,056	125	222	1,052
2793	Photoengraving.....	105	20	1,294	7,599	950	1,815	5,709	11,572	13,843	260	1,337	9,755
2794	Electrotyping & stereotyping	20	10	420	2,374	302	569	1,678	3,806	4,600	102	369	2,640
28	Chemicals and products..	1,316	363	44,162	215,588	28,089	55,630	119,299	559,453	( <sup>2</sup> )	32,055	30,584	307,478
281	Inorganic chemicals.....	65	35	14,556	79,575	9,035	17,781	45,479	187,054	( <sup>2</sup> )	11,812	5,068	36,307
2819	Inorganic chemicals, nec....	56	26	12,646	70,124	7,774	15,272	39,698	153,957	215,814	7,056	(D)	(D)
2822	Intermediates and organic colors.....	4	3	440	2,185	302	602	1,406	3,302	12,684	166	(D)	(D)
2823	Plastics materials.....	31	18	1,005	5,306	593	1,162	2,592	13,597	39,859	1,754	501	2,073
2826	Explosives.....	8	6	726	3,271	555	1,085	2,438	7,111	14,317	372	(D)	(D)
284	Soap and related products.	188	36	4,407	20,549	2,511	4,731	9,679	80,893	( <sup>2</sup> )	1,999	3,038	41,777
285	Paints and allied products	249	79	6,130	27,814	3,721	7,346	14,818	69,122	( <sup>2</sup> )	2,106	5,503	56,838
287	Fertilizers.....	74	13	1,201	4,798	684	1,487	2,320	6,644	( <sup>2</sup> )	1,103	(D)	(D)
2872	Fertilizers, mixing only....	66	12	1,138	4,552	638	1,390	2,146	6,355	21,369	(D)	(D)	(D)
288	Vegetable and animal oils.	99	38	3,026	15,203	2,296	5,079	9,898	32,228	( <sup>2</sup> )	2,597	3,142	52,917
2886	Grease and tallow.....	55	15	1,238	6,241	942	2,043	4,133	12,143	29,266	949	1,090	11,020
289	Chemical products, nec....	407	89	7,508	32,416	4,925	9,483	17,752	83,608	( <sup>2</sup> )	6,164	6,192	51,893
2893	Toilet preparations.....	104	17	1,605	6,097	1,103	2,014	3,109	16,273	27,050	575	1,322	9,877
2894	Glue and gelatin.....	23	4	416	1,920	301	609	1,242	4,753	12,142	432	(D)	(D)
2897	Insecticides & fungicides...	42	15	1,043	4,424	585	1,108	2,057	9,970	28,185	(D)	695	5,760
2899	Chemical products, nec.....	148	17	1,615	6,899	976	1,679	3,126	18,769	37,170	689	1,015	9,650
29	Petroleum and coal prod- ucts.....	161	67	20,961	109,833	14,992	30,021	71,188	283,223	( <sup>2</sup> )	132,022	22,015	217,608
2911	Petroleum refining.....	62	40	17,994	95,657	12,707	25,422	61,439	248,572	1,670,610	130,254	(D)	(D)
295	Paving & roofing materials	56	22	2,248	10,774	1,725	3,536	7,487	25,529	( <sup>2</sup> )	1,103	2,281	21,993
2951	Paving mixtures and blocks..	29	7	455	2,513	329	642	1,591	5,456	13,409	458	391	3,829
2952	Roofing felts and coatings..	27	15	1,793	8,260	1,396	2,894	5,896	20,072	49,818	644	1,890	18,164
30	Rubber products.....	218	80	16,744	(D)	13,516	(D)	(D)	(D)	(D)	(D)	(D)	(D)
31	Leather & leather goods.	278	80	6,788	23,941	5,807	11,015	17,694	38,559	( <sup>2</sup> )	1,849	6,520	28,550
3111	Leather tanning and fin- ishing.....	16	10	766	3,524	685	1,428	2,867	5,639	13,121	290	(D)	(D)
3121	Industrial leather belting	12	3	699	3,670	429	810	1,696	5,609	7,666	(D)	615	2,317
3131	Footwear cut stock.....	13	3	123	373	104	186	273	665	1,188	3	159	774
315	Leather gloves.....	28	5	345	836	291	483	655	1,233	( <sup>2</sup> )	8	360	1,162
32	Stone, clay, and glass products.....	1,275	295	37,714	159,018	31,067	61,197	120,658	334,368	( <sup>2</sup> )	34,132	31,784	178,357
3221	Glass containers.....	13	13	5,686	26,591	5,032	9,942	22,210	53,215	84,044	3,867	(D)	(D)
3231	Products of purchased glass.....	85	13	1,004	3,347	845	1,526	2,694	5,224	9,782	137	957	4,553
3241	Cement, hydraulic.....	21	20	5,215	24,159	4,213	8,549	17,833	70,773	119,501	9,223	4,523	36,844
325	Structural clay products..	110	60	6,639	27,392	5,494	10,930	21,149	50,511	( <sup>2</sup> )	4,018	4,875	22,036
3251	Brick and hollow tile.....	53	31	1,811	7,571	1,529	3,104	5,605	12,023	15,665	883	1,411	5,702
3255	Clay refractories.....	11	5	428	1,753	352	715	1,360	4,203	6,099	479	(D)	(D)
326	Pottery & related products	325	55	5,774	18,335	5,174	9,449	15,325	33,832	( <sup>2</sup> )	(D)	(D)	(D)
3263	Earthenware food utensils...	19	9	1,264	4,459	1,067	1,793	3,379	6,923	8,522	108	2,538	11,040
3269	Pottery products, nec.....	288	34	2,737	6,899	2,508	4,605	5,919	12,013	16,082	(D)	(D)	(D)
327	Concrete & plaster products	496	83	8,592	37,507	6,513	13,218	25,823	72,227	( <sup>2</sup> )	9,952	7,455	39,847
3271	Concrete products.....	462	63	6,088	26,223	4,499	8,925	17,383	42,399	75,505	4,965	5,956	29,063
3272	Gypsum products.....	15	8	1,179	5,150	1,011	2,222	4,271	17,094	31,060	4,065	809	6,660
3274	Lime.....	7	3	279	1,145	225	433	855	1,786	3,939	473	418	2,771
3275	Mineral wool.....	12	9	1,044	4,989	776	1,637	3,312	10,947	18,443	449	272	1,353

See footnotes at end of table.



## GEOGRAPHIC DIVISIONS

10-73

## Pacific

Table 2.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Code	Industry group and industry	1954								1947			
		Establishments, number		All employees		Production workers			Value added by manu- facture (\$1,000)	Value of ship- ments (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
32	Stone, clay, and glass products—Continued												
329	Nonmet. mineral products, nec.....	154	42	4,073	18,718	3,177	6,430	13,238	44,009	( <sup>2</sup> )	6,017	(D)	(D)
3291	Abrasive products.....	29	6	448	1,950	345	684	1,360	3,606	7,203	295	57	311
3295	Minerals: ground or treated.....	39	7	809	3,671	667	1,263	2,606	9,797	15,439	595	(D)	(D)
3297	Nonclay refractories.....	6	6	474	2,130	374	734	1,496	6,990	12,955	635	(D)	(D)
3299	Nonmetallic mineral prod., nec.....	19	3	212	919	140	219	440	1,898	5,381	(D)	111	1,020
33	Primary metal industries	694	291	54,495	253,339	45,546	91,026	198,262	551,002	( <sup>2</sup> )	39,949	44,702	267,682
332	Iron and steel foundries..	163	104	10,365	45,435	9,092	17,881	37,187	68,816	( <sup>2</sup> )	2,214	11,228	50,869
3321	Gray-iron foundries.....	118	68	5,863	25,331	5,158	10,098	20,932	39,198	61,342	1,365	7,675	(D)
333	Primary nonferrous metals.	12	10	7,376	35,462	6,099	12,480	28,634	110,732	( <sup>2</sup> )	2,639	4,728	40,670
3341	Secondary nonferrous met- als.....	40	15	1,427	6,485	1,044	2,185	4,128	14,904	59,244	599	(D)	(D)
3361	Nonferrous foundries.....	291	74	6,587	28,342	5,633	11,180	22,138	46,165	79,567	2,220	4,803	25,779
339	Primary metal industries, nec.....	142	55	5,746	26,777	4,422	8,953	19,157	52,795	( <sup>2</sup> )	6,221	5,477	28,429
3391	Iron and steel forgings.....	30	17	1,000	4,900	780	1,487	3,591	9,742	19,450	380	(D)	(D)
3392	Wire drawing.....	11	6	1,165	5,222	851	1,689	3,579	10,814	40,857	3,777	490	(D)
3393	Welded & heavy-riveted pipe.	21	9	1,782	8,419	1,433	2,910	6,194	17,546	41,630	614	3,338	15,993
3399	Primary metal industries, nec.....	80	23	1,797	8,235	1,356	2,866	5,792	14,692	32,646	1,448	652	(D)
34	Fabricated metal prod- ucts.....	2,897	748	82,987	378,370	65,951	130,454	272,065	660,139	( <sup>2</sup> )	42,256	60,490	330,163
3411	Tin cans and other tinware	44	33	8,616	39,465	7,510	15,042	32,905	84,236	262,420	13,831	(D)	(D)
342	Cutlery, tools, & hardware	250	62	7,900	34,616	6,125	12,600	23,371	64,735	( <sup>2</sup> )	2,671	4,888	27,952
3425	Hand saws and saw blades....	13	3	160	671	140	237	439	1,300	1,938	86	175	902
3429	Hardware, nec.....	136	45	6,213	27,470	4,897	10,383	19,161	51,320	82,336	1,959	2,784	15,857
343	Heating & plumbing equip- ment.....	193	80	10,516	47,740	8,327	15,866	33,233	92,329	( <sup>2</sup> )	3,848	12,933	75,576
3431	Plumbing fixtures & fittings	56	23	3,145	13,930	2,760	5,449	11,235	28,897	52,797	1,351	(D)	(D)
3439	Heating and cooking equip., nec.....	137	57	7,371	33,810	5,566	10,417	21,997	63,432	127,456	2,497	(D)	(D)
344	Structural metal products.	971	270	28,805	139,684	22,081	43,105	97,850	216,458	( <sup>2</sup> )	9,739	19,014	102,831
3441	Structural & ornamental work	349	110	11,339	54,949	8,474	16,655	37,500	79,683	167,510	3,694	6,897	36,039
3442	Metal doors, sash, and trim.	113	43	3,196	14,969	2,234	4,302	9,196	23,797	44,432	1,066	(D)	(D)
3443	Boiler shop products.....	131	57	9,174	45,395	7,344	14,239	33,375	71,651	140,655	2,638	6,147	31,997
3444	Sheet-metal work.....	378	60	5,095	24,369	4,028	7,908	17,778	41,325	74,552	2,340	4,659	(D)
346	Metal stamping and coating	694	133	10,506	44,618	8,671	17,321	33,213	76,319	( <sup>2</sup> )	3,654	7,110	34,377
3463	Metal stampings.....	221	57	4,816	21,869	3,904	7,883	16,002	39,275	69,777	1,444	3,917	(D)
3468	Plating and polishing.....	356	55	4,325	17,160	3,662	7,191	13,162	27,874	36,604	1,835	2,196	(D)
3471	Lighting fixtures.....	165	43	3,148	12,777	2,467	4,863	8,366	23,967	46,582	732	(D)	(D)
348	Fabricated wire products..	183	47	4,252	17,877	3,437	6,739	13,065	29,300	( <sup>2</sup> )	1,953	3,589	16,888
3489	Wirework, nec.....	175	45	4,161	17,542	3,361	6,606	12,818	28,736	55,593	1,944	3,546	16,652
349	Metal products, nec.....	397	80	9,240	41,591	7,330	14,915	30,059	72,791	( <sup>2</sup> )	5,823	4,245	20,365
3497	Metal foil.....	7	2	254	1,108	190	364	768	2,973	11,006	(D)	(D)	(D)
3499	Fabricated metal prod., nec.	129	11	1,629	6,342	1,370	2,762	4,977	13,281	21,296	623	(D)	(D)
35	Machinery, except elec- trical.....	3,439	681	77,527	371,518	58,051	117,886	253,023	650,631	( <sup>2</sup> )	28,436	61,546	329,499
352	Tractors & farm machinery.	233	41	3,496	14,886	2,564	5,102	9,659	26,750	( <sup>2</sup> )	1,043	4,267	16,977
353	Construction and mining machinery.....	160	60	9,169	46,219	6,451	13,068	28,528	77,987	( <sup>2</sup> )	3,628	10,067	65,313
3531	Construction & mining mach.	98	32	3,811	18,396	2,815	5,607	12,553	30,096	52,516	1,524	(D)	(D)
3532	Oil-field mach. and tools....	62	28	5,358	27,823	3,635	7,461	15,975	47,891	71,535	2,103	(D)	(D)
354	Metalworking machinery....	503	81	8,195	43,654	6,514	13,684	32,729	71,027	( <sup>2</sup> )	3,891	3,327	17,091
3544	Special dies and tools.....	298	50	4,555	26,218	3,785	8,183	20,470	42,939	54,250	2,088		
3545	Metalworking mach. attach- ments.....	83	8	797	3,677	639	1,388	2,782	6,640	8,839	323	1,364	7,444
355	Special-industry mach., nec.....	335	91	9,292	43,693	6,739	13,210	28,892	73,494	( <sup>2</sup> )	3,318	9,534	49,193
3551	Food-products machinery.....	127	35	2,714	12,897	1,859	3,575	7,874	20,531	33,854	(D)	4,017	23,094
3554	Paper-industries machinery..	11	7	536	2,621	406	797	1,848	4,052	6,502	85	322	1,713
3561	Pumps and compressors....	86	32	5,288	25,129	3,495	7,018	14,836	50,558	89,053	1,285	4,786	(D)
3562	Elevators and escalators..	21	9	390	1,917	278	532	1,184	3,241	5,453	71	(D)	(D)
3564	Blowers and fans.....	33	17	1,581	7,449	1,175	2,323	4,839	12,321	21,600	518	(D)	(D)
3566	Power transmission equipment	56	23	2,147	10,397	1,604	3,365	7,340	18,031	29,939	876	1,573	(D)

See footnotes at end of table.

MANUFACTURES—AREA STATISTICS  
Pacific

Table 2.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Code	Industry group and industry	1954										1947	
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
35	Machinery, except electrical—Continued												
357	Office and store machines.	46	14	5,009	22,481	3,829	7,260	15,250	36,287	(2)	2,028	(D)	(D)
3579	Office & store machines, nec	21	5	251	983	193	332	567	2,009	3,216	74	196	1,070
358	Service and household machines.....	133	37	5,647	25,065	4,063	8,089	16,403	42,482	(2)	1,302	4,833	23,816
3585	Refrigeration machinery.....	73	24	3,899	16,978	2,923	5,711	11,661	28,242	(2)	638	4,192	(D)
3591	Valves and fittings, except plumbing.....	92	41	4,218	20,879	3,209	6,852	14,078	44,032	77,047	1,526	(D)	(D)
3599	Machine shops.....	1,299	154	13,560	62,860	11,303	23,529	49,180	106,613	154,626	5,632	4,729	25,205
36	Electrical machinery....	792	293	54,707	231,989	38,978	79,540	154,298	425,796	(2)	20,273	19,158	115,489
361	Elec. industrial apparatus	272	119	19,626	92,560	14,441	29,635	61,393	165,858	(2)	5,869	8,782	50,697
3611	Wiring devices and supplies.	32	15	3,041	13,742	2,400	4,896	9,826	21,126	38,020	1,251	1,332	(D)
3615	Transformers.....	22	7	3,316	16,533	2,265	4,703	11,090	40,051	62,050	(D)	(D)	(D)
3616	Electrical control apparatus	66	36	4,634	20,783	3,568	7,168	14,143	37,248	66,978	1,151	(D)	(D)
3621	Electrical appliances.....	42	12	2,407	10,966	1,970	4,075	8,303	33,734	52,839	1,053	3,068	(D)
3641	Engine elec. equipment....	17	8	839	3,226	695	1,458	2,285	5,134	8,997	113	77	304
366	Communication equipment...	335	120	29,156	114,011	19,795	40,278	74,599	198,802	(2)	9,834	(D)	(D)
3664	Telephone & telegraph equip.	5	2	970	4,678	675	1,404	2,642	7,671	11,385	49	(D)	(D)
369	Electrical products, nec..	116	29	2,019	8,387	1,541	3,069	5,648	14,748	(2)	3,116	(D)	(D)
37	Transportation equipment	1,227	451	318,278	1,598,712	228,587	471,101	1,033,840	2,438,626	(2)	61,767	137,102	643,746
371	Motor vehicles & equipment	382	132	27,417	130,046	22,145	44,725	97,235	257,825	(2)	13,179	(D)	(D)
3713	Truck and bus bodies.....	79	24	1,430	6,258	1,124	2,124	4,445	9,276	19,359	326	1,780	9,824
3715	Truck trailers.....	27	12	1,972	9,587	1,596	3,133	7,127	18,086	40,570	318	1,829	(D)
3716	Automobile trailers.....	73	25	1,851	7,607	1,612	2,989	5,615	11,787	37,969	235	1,641	(D)
3717	Motor vehicles and parts....	203	71	22,162	106,592	17,812	36,477	80,047	218,674	(2)	12,299	13,099	(D)
372	Aircraft and parts.....	556	235	271,824	1,380,492	189,671	394,491	862,198	2,054,541	(2)	45,622	90,244	395,039
3731	Ship building & repairing	66	49	16,439	77,921	14,510	27,656	66,161	110,756	162,892	2,108	24,513	97,614
3799	Transportation equipment, nec.....	14	3	305	1,307	252	553	927	2,208	(2)	115	149	(D)
38	Instruments & related products.....	438	99	14,297	65,602	10,262	20,635	42,496	119,443	(2)	8,948	7,282	32,583
3811	Scientific instruments....	75	23	3,374	15,924	2,529	4,949	10,292	28,705	42,163	853	1,451	6,083
3821	Mechanical measuring instruments.....	72	29	6,135	28,533	4,242	8,543	18,708	51,717	77,460	4,714	(D)	(D)
3831	Optical instruments and lenses.....	36	11	1,414	6,697	1,066	2,190	4,511	10,075	16,410	1,606	185	(D)
384	Medical equip. & supplies.	142	13	1,245	5,151	876	1,751	2,907	10,629	(2)	880	(D)	(D)
3842	Surgical appliances and supplies.....	90	9	887	3,726	614	1,263	2,092	7,381	12,130	812	545	2,284
3851	Ophthalmic goods.....	20	3	183	650	131	252	448	1,124	1,860	50	19	54
3861	Photographic equipment....	87	19	1,904	8,537	1,382	2,887	5,545	16,963	29,011	827	(D)	(D)
39	Miscellaneous manufactures.....	1,754	324	51,009	(D)	38,591	(D)	(D)	(D)	(D)	(D)	(D)	(D)
391	Jewelry and silverware....	137	13	1,072	4,458	883	1,659	3,206	7,806	(2)	98	1,126	6,292
3911	Jewelry (precious metal)....	102	9	776	3,270	638	1,182	2,371	6,036	9,633	43	680	4,215
394	Toys and sporting goods...	327	46	4,851	15,275	3,983	7,451	10,722	27,211	(2)	1,403	2,473	9,007
3949	Sporting and athletic goods.	183	17	1,843	5,768	1,523	2,800	3,898	11,822	20,891	645	1,065	3,763
395	Office supplies.....	95	20	1,572	6,123	1,242	2,655	4,219	12,061	(2)	554	746	4,006
3951	Pens and mechanical pencils.	17	6	689	2,726	590	1,391	2,093	6,532	10,746	271	199	1,342
3952	Lead pencils and crayons....	5	2	136	531	113	215	392	1,226	1,893	70	146	696
396	Costume jewelry & notions.	89	9	798	2,204	709	1,273	1,763	3,740	(2)	64	(D)	(D)
3962	Artificial flowers.....	24	1	137	306	228	200	247	614	1,063	(D)	75	(D)
398 } 399	Misc. manufactures.....	759	147	35,779	162,288	26,182	50,848	109,455	275,547	(2)	5,935	(D)	(D)
3981	Brooms and brushes.....	64	10	678	2,310	528	1,001	1,513	4,595	9,150	76	654	3,056
3984	Candles.....	25	3	228	635	183	329	454	1,278	2,373	31	(D)	(D)
3988	Morticians' goods.....	61	20	1,056	4,423	853	1,711	3,128	6,919	13,995	87	1,105	5,655
3991	Beauty & barber-shop equip..	11	3	123	417	92	169	232	1,552	2,717	12	201	(D)
3993	Signs & advertising displays.....	335	43	3,830	17,181	2,766	5,322	10,732	28,328	42,473	965	2,919	14,265

See footnotes at end of table.



## Pacific

Table 2.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Code	Industry group and industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
39	Miscellaneous manufactures <sup>4</sup> --Continued												
398	Miscellaneous manufactures <sup>4</sup> --Continued												
399	Miscellaneous products, nec.	114	13	993	3,621	814	1,597	2,532	7,019	13,724	205	1,176	6,363
19--	Ordnance and accessories....	59	37	27,278	1,289	195	38,183	87,165	216,447	( <sup>2</sup> )	4,337	(D)	(D)

Note: Detailed figures may not add to total.

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industries (4-digit) and industry groups (3-digit) are not shown. Industries and industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "all industries" line.

<sup>2</sup>The total value of shipments figures for industry groups and a few individual industries have not been published due to the extensive and unmeasurable duplication arising from shipments from one establishment to another in the same industry classification. (See Introduction.)

<sup>3</sup>Comparable data for major groups 20 and 24 are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude establishments in S.I.C. Industry 2411, Logging Camps and Contractors, which are included in the scope of the 1954 Census; the 1947 Census also excludes plants processing and distributing fluid milk which in 1954 were classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	All industries, except subgroups 202 and 2411, total.....	1,298,588	10,723,430	906,862	5,496,961
20	Food and kindred products, except subgroup 202, Dairy products.....	163,340	1,527,687	157,562	1,061,448
24	Lumber and wood products, except Industry 2411, Logging camps and contractors.....	149,849	1,089,085	133,050	869,252

<sup>4</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)

## MANUFACTURES—AREA STATISTICS

## Pacific

Table 3.—DISTRIBUTION OF OPERATING MANUFACTURING ESTABLISHMENTS BY EMPLOYMENT SIZE GROUPS AND MAJOR INDUSTRY GROUPS, FOR THE DIVISION: 1954

20 Food and kindred products	26 Pulp paper and products	32 Stone, clay, and glass products	38 Instruments and related products
21 Tobacco manufactures	27 Printing and publishing	33 Primary metal industries	39 Miscellaneous manufactures (Includes Group 19 Ordnance and accessories)
22 Textile mill products	28 Chemicals and products	34 Fabricated metal products	
23 Apparel and related products	29 Petroleum and coal products	35 Machinery, except electrical	
24 Lumber and wood products	30 Rubber products	36 Electrical machinery	
25 Furniture and fixtures	31 Leather and leather goods products	37 Transportation equipment	

State, county, and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Pacific Division, total.....	35,308	4,414	14	225	2,386	8,336	1,571	465	3,408	1,316	161	218	278	1,275	694	2,897	3,439	792	1,227	438	1,754
1 to 4 employees.....	15,598	1,395	7	71	779	4,646	741	91	1,831	521	38	84	128	584	185	1,141	1,603	259	408	207	879
5 to 9 employees.....	5,747	722	3	29	372	1,155	291	48	645	228	25	29	38	204	111	519	620	128	184	78	318
10 to 19 employees.....	4,973	677	1	46	444	921	221	53	412	204	31	25	32	192	107	489	535	112	184	54	233
20 to 49 employees.....	4,720	741	1	44	480	856	201	85	321	199	19	36	41	148	128	446	402	125	200	44	203
50 to 99 employees.....	2,085	411	1	16	204	398	80	63	108	83	22	19	23	65	68	143	126	73	85	28	69
100 to 249 employees.....	1,379	312	1	14	86	239	26	75	54	58	12	15	14	52	54	103	102	50	68	16	28
250 to 499 employees.....	497	115	...	3	17	88	8	37	18	18	4	5	1	21	22	38	36	23	26	6	11
500 to 999 employees.....	205	34	...	1	4	29	2	12	14	4	2	2	1	7	8	14	10	14	37	4	6
1,000 to 2,499 employees.....	71	7	...	1	...	3	1	1	4	...	7	2	...	2	8	3	5	5	16	1	5
2,500 employees and over.....	33	...	...	...	...	1	...	...	1	1	1	1	...	...	3	1	...	3	19	...	2



# ALABAMA (67 COUNTIES)



## MANUFACTURES—AREA STATISTICS

Table 1.—MANUFACTURING EMPLOYMENT AT OPERATING ESTABLISHMENTS AND CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARIES FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS

(This table includes data for all manufacturing employees including those located in central administrative offices and auxiliaries. Tables 2-7 in this report include data for operating establishments only. For explanation of column captions see Introduction)

State, standard metropolitan areas, and year <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	(Number)	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
Alabama:						
1954.....	220,077	690,015	217,084	672,109	2,993	17,906
1953 <sup>2</sup> .....	228,179	697,865	233,139	675,265	5,040	22,600
1952 <sup>2</sup> .....	213,010	608,102	209,197	593,046	3,813	15,056
1951 <sup>2</sup> .....	215,763	588,017	211,950	572,961	3,813	15,056
1950 <sup>2</sup> .....	211,162	524,322	207,544	511,374	3,618	12,948
1949 <sup>2</sup> .....	193,878	461,598	190,261	449,154	3,617	12,444
1954						
Standard metropolitan areas:						
Birmingham <sup>4</sup> .....	60,663	253,862	57,762	236,624	2,901	17,238
Columbus, Georgia <sup>5</sup> .....	17,976	44,097	17,913	43,788	63	309
Gadsden <sup>6</sup> .....	12,760	47,483	12,760	47,483	...	...
Mobile <sup>7</sup> .....	15,418	56,957	15,381	56,703	37	254
Montgomery <sup>8</sup> .....	6,281	17,753	6,281	17,753	...	...

<sup>1</sup>Employment data for administrative offices and auxiliaries on a State basis are not available for the years prior to 1949. Similar data for standard metropolitan areas are available only for 1954. <sup>2</sup>The employment figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period. The employment figures for administrative and auxiliary units were compiled chiefly from Bureau of Old-Age and Survivors Insurance records and are not strictly comparable with the figures for these units that were collected by the Bureau of the Census for the year 1954. <sup>3</sup>The 1951 data are shown for 1952 since auxiliary administrative unit data were not collected in 1952. <sup>4</sup>The Birmingham Standard Metropolitan Area consists of Jefferson County, Alabama. <sup>5</sup>The Columbus, Georgia Standard Metropolitan Area consists of Russell County, Alabama; Catta-hoochee and Muscogee Counties, Georgia. <sup>6</sup>The Gadsden Standard Metropolitan Area consists of Etowah County, Alabama. <sup>7</sup>The Mobile Standard Metropolitan Area consists of Mobile County, Alabama. <sup>8</sup>The Montgomery Standard Metropolitan Area consists of Montgomery County, Alabama.

Table 2.—GENERAL STATISTICS FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Year	Establish- ments, number	All employees		Production workers		Value added by manufacture (\$1,000)	
		Number	Payroll (\$1,000)	Number	Wages (\$1,000)		
ALABAMA							
1954 <sup>1</sup> .....	3,893	217,084	672,109	188,414	528,618	1,319,192	
1953 <sup>2</sup> .....	}	223,139	675,265	197,217	550,894	1,311,436	
1952 <sup>2</sup> .....		209,197	593,046	186,063	486,438	1,139,198	
1951 <sup>2</sup> .....		(NA)	211,950	572,961	188,999	473,499	1,192,019
1950 <sup>2</sup> .....		207,544	511,374	183,741	425,467	1,039,831	
1949 <sup>2</sup> .....		190,261	449,154	169,443	363,597	836,916	
1947.....	3,336	206,239	444,887	185,700	372,510	877,416	
1939.....	1,982	129,261	114,706	115,698	91,106	245,577	
1937.....	1,874	129,133	114,569	120,301	96,058	237,436	
1935.....	1,711	101,762	74,844	94,345	60,643	146,584	
1933.....	1,358	(NA)	(NA)	84,966	48,417	113,470	
1931.....	1,639	130,034	126,390	84,630	61,568	151,050	
1929.....	2,848			119,559	102,005	258,125	
1927.....	2,355			119,093	105,489	232,879	
1925.....	2,349	(NA)	(NA)	116,599	101,243	227,140	
1923.....	1,996	116,440	116,974	109,620	95,205	218,063	
1921.....	1,855			82,748	66,747	116,401	
1919.....	3,522			106,679	98,482	190,965	
1914.....	3,208	85,574	42,203	78,581	33,781	71,154	
1909.....	3,398	78,203	33,849	72,148	27,284	62,519	
1904.....	1,882	65,936	25,746	62,173	21,878	48,712	
1899.....	2,000	54,970	16,971	52,711	14,912	34,112	
BIRMINGHAM STANDARD METROPOLITAN AREA							
1954 <sup>1</sup> .....	605	57,762	236,624	46,169	170,682	481,580	
1947.....	529	53,359	138,011	44,767	106,659	275,630	
1939.....	374	31,988	40,440	28,774	33,000	105,409	
1929.....	419	36,319	49,542	31,544	37,924	111,211	
1919.....	440	(NA)	(NA)	28,909	33,009	62,540	

NA Not available.

<sup>1</sup>The 1954 figures include data for establishments engaged in the processing and distribution of fluid milk, Industry Group 202, Dairy Products. These establishments were not included in the figures for the Annual Survey years 1949-1953 or earlier Census years. In addition, the 1954 Census and Annual Survey years include data for Logging Camps and Contractors, Industry 2411, which were not included within the scope of the 1947 Census. See footnotes to Table 4 for comparable 1954 and 1947 totals. There were also a number of changes in the definition of manufacturing industries during earlier Census years that affect the comparability of the historical series. Among the more important of these were: figures for 1935 and later years exclude data for "Railroad repair shops" and "Manufactured gas" which were included in 1899-1933 figures; the minimum size of establishment included for 1954 and 1947 was one employee, for 1939-1921 manufacturing establishments reporting value of shipments of \$5,000 or more were within scope whereas for 1919 and earlier years the cutoff was \$500. (This change in procedure has not appreciably affected the comparability of the historical data except for the figures on number of establishments.)

<sup>2</sup>The employment and payroll figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these establishments are published in the Annual Survey of Manufactures volume for this period.



Table 3.--GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	Estab- lish- ments, number	1954							1947	
			All employees		Production workers			Value added by manu- facture	Capital expendi- tures, new	All employees, number	Value added by manu- facture
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
Alabama, total.....	3,061,743	3,893	217,084	672,109	188,414	357,780	528,618	1,319,192	82,248	1206,239	1877,416
STANDARD METROPOLITAN AREAS											
Birmingham area.....	558,928	605	57,762	236,624	46,169	89,227	170,682	481,580	31,518	53,359	275,630
Columbus, Georgia area, total.....	170,541	177	17,913	43,788	15,830	30,295	34,684	69,944	3,812	19,990	90,156
Portion in Alabama.....	40,364	53	867	1,720	798	1,521	1,489	2,742	338	931	2,875
Portion in Georgia.....	130,117	124	17,046	42,068	15,032	28,774	33,195	67,202	3,474	19,059	87,281
Gadsden area.....	93,892	93	12,760	47,483	11,309	21,052	39,716	101,712	1,325	15,033	68,831
Mobile area.....	231,105	226	15,381	56,703	13,158	26,418	45,324	123,245	8,022	17,581	91,312
Montgomery area.....	138,965	192	6,281	17,753	4,738	9,371	11,602	33,057	1,489	5,617	24,942
COUNTIES											
Autauga.....	18,186	27	994	2,429	940	1,673	2,211	4,172	141	986	2,293
Baldwin.....	40,997	79	1,480	3,650	1,304	2,622	2,884	6,132	1,427	580	1,924
Barbour.....	28,892	47	1,590	2,889	1,483	2,604	2,489	5,801	192	1,642	4,746
Bibb.....	17,987	31	1,029	1,807	954	1,747	1,527	2,337	315	883	1,984
Blount.....	28,975	22	594	(D)	578	(D)	(D)	(D)	(D)	364	929
Bullock.....	16,054	19	378	590	354	575	524	790	43	726	1,751
Butler.....	29,228	37	2,356	4,605	2,161	4,443	3,934	6,417	511	2,194	5,379
Calhoun.....	79,539	106	36,224	11,297	20,754	31,159	63,365	1,965	(D)	10,381	36,702
Chambers.....	39,528	43	8,209	(D)	7,730	(D)	(D)	(D)	(D)	9,165	(D)
Cherokee.....	17,634	9	93	(D)	84	(D)	(D)	(D)	(D)	295	584
Chilton.....	26,922	45	924	1,897	888	1,726	1,731	3,057	138	885	3,190
Choctaw.....	19,152	59	804	1,235	733	1,301	1,088	2,036	93	1,301	2,995
Clarke.....	26,548	76	2,783	5,651	2,637	5,122	4,991	12,515	381	1,830	5,710
Clay.....	13,929	29	641	1,416	593	1,061	1,070	2,237	75	460	1,396
Cleburne.....	11,904	27	219	321	212	355	308	607	181	277	809
Coffee.....	30,720	45	1,750	3,731	1,535	2,897	3,049	6,622	444	1,635	6,794
Colbert.....	39,561	43	5,323	20,456	4,421	8,986	16,105	42,014	2,785	6,972	29,362
Conecuh.....	21,776	28	738	1,557	690	1,448	1,333	1,987	82	764	2,126
Coosa.....	11,766	37	661	1,489	562	1,094	1,075	2,567	117	(D)	(D)
Covington.....	40,373	62	4,879	9,708	4,548	8,522	8,379	13,840	650	3,700	10,008
Crenshaw.....	18,981	41	588	788	540	887	677	987	51	388	874
Cullman.....	49,046	39	1,383	2,629	1,259	2,299	2,286	3,705	190	877	3,240
Dale.....	20,828	35	913	1,588	873	1,531	1,426	2,675	78	939	1,985
Dallas.....	56,270	71	2,873	5,292	2,636	4,686	4,312	9,550	479	2,723	8,103
De Kalb.....	45,048	54	1,746	3,670	1,584	2,717	2,856	6,326	264	1,286	2,703
Elmore.....	31,649	28	843	1,844	810	1,565	1,735	3,436	174	1,195	(D)
Escambia.....	31,443	59	2,032	4,355	1,872	3,603	3,764	9,364	439	1,559	5,699
Etowah.....	93,892	93	12,760	47,483	11,309	21,052	39,716	101,712	1,325	15,033	68,831
Fayette.....	19,388	26	753	1,726	664	1,349	1,441	2,190	335	1,111	3,879
Franklin.....	25,705	22	467	1,065	402	696	833	1,425	111	806	2,315
Geneva.....	25,899	39	1,655	3,157	1,603	2,964	2,959	6,327	253	1,278	4,673
Greene.....	16,482	19	235	382	215	316	328	591	46	39	179
Hale.....	20,832	25	449	884	396	733	721	1,448	190	469	1,206
Henry.....	18,674	35	853	1,538	801	1,576	1,397	2,765	82	485	1,257
Houston.....	46,522	80	2,305	6,259	1,839	3,972	4,378	11,674	939	1,710	6,499
Jackson.....	38,998	58	1,388	2,511	1,261	2,171	2,109	4,289	256	1,028	2,820
Jefferson.....	558,928	605	57,762	236,624	46,169	89,227	170,682	481,580	31,518	53,359	275,630
Lamar.....	16,441	34	781	1,426	752	1,540	1,303	2,009	73	396	914
Lauderdale.....	54,179	31	1,818	4,351	1,588	3,008	3,569	7,134	513	1,050	4,016
Lawrence.....	27,128	6	164	222	155	240	193	272	6	14	34
Lee.....	45,073	55	3,491	8,490	3,155	5,830	7,254	16,579	716	2,821	11,894
Limestone.....	35,766	13	666	1,198	598	1,055	981	2,377	62	126	248
Lowndes.....	18,018	25	272	343	259	365	311	539	24	305	721
Macon.....	30,561	23	244	368	233	358	328	607	67	429	926
Madison.....	72,903	60	4,397	12,371	3,944	7,644	10,034	21,176	1,636	4,444	18,686
Marengo.....	29,494	39	1,364	2,861	1,247	2,255	2,415	7,138	272	1,507	4,090
Marion.....	27,264	33	1,317	2,631	1,250	2,298	2,327	5,383	223	515	2,171
Marshall.....	45,090	41	1,689	3,914	1,571	2,987	3,430	6,300	339	1,517	4,862
Mobile.....	231,105	226	15,381	56,703	13,158	26,418	45,324	123,245	8,022	17,581	91,312
Monroe.....	25,732	35	1,769	3,487	1,544	2,915	2,898	6,497	191	1,429	3,780
Montgomery.....	138,965	192	6,281	17,753	4,738	9,371	11,602	33,057	1,489	5,617	24,942
Morgan.....	52,924	64	4,202	14,110	3,263	6,199	9,852	31,106	3,446	4,105	15,074
Perry.....	20,439	26	321	669	289	483	512	1,305	27	937	2,269
Pickens.....	24,349	35	1,209	2,670	1,133	2,191	2,344	5,403	292	950	2,713
Pike.....	30,608	63	1,154	2,108	1,048	1,890	1,740	3,405	117	1,223	3,229

See footnotes at end of table.

## MANUFACTURES—AREA STATISTICS

Table 3.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	Estab- lish- ments, number	1954							1947	
			All employees		Production workers			Value added by manu- facture	Capital expendi- tures, new	All employees, number	Value added by manu- facture
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)		
Randolph.....	22,513	44	1,674	3,464	1,593	2,753	3,128	4,345	396	1,773	5,135
Russell.....	40,364	53	867	1,720	798	1,521	1,489	2,742	338	931	2,875
St. Clair.....	26,687	23	1,160	3,052	1,087	1,803	2,600	5,869	204	1,418	7,460
Shelby.....	30,362	66	1,713	3,916	1,592	2,813	3,338	6,053	3,816	1,451	5,831
Sumter.....	23,610	30	706	1,291	648	1,243	1,056	1,825	884	1,280	3,618
Talladega.....	63,639	88	8,392	23,736	7,370	13,445	19,250	54,298	1,724	6,442	26,225
Tallapoosa.....	35,074	70	6,915	17,108	6,514	11,828	14,656	25,370	1,847	7,140	35,479
Tuscaloosa.....	94,092	117	8,148	30,099	7,103	14,775	24,880	64,551	7,200	5,988	30,682
Walker.....	63,769	67	1,881	4,682	1,730	3,211	4,069	8,042	191	1,842	9,178
Washington.....	15,612	57	744	1,607	639	1,217	1,296	6,000	458	630	1,234
Wilcox.....	23,476	43	611	1,012	577	955	956	1,407	108	1,477	2,837
Winston.....	18,250	34	947	1,943	866	1,663	1,735	3,132	146	546	3,436
CITIES WITH 10,000 INHAB- ITANTS OR MORE											
Anniston.....	31,066	60	5,882	18,837	5,255	9,866	15,662	30,813	1,156	6,787	23,769
Auburn.....	12,939	5	46	148	38	69	119	221	8	(NA)	(NA)
Bessemer.....	28,445	30	3,006	11,412	2,622	5,074	9,451	22,199	1,901	3,063	16,701
Birmingham.....	326,037	436	37,252	149,371	28,922	56,379	101,927	270,521	14,496	26,548	130,276
Decatur.....	19,974	38	3,508	11,811	2,837	5,335	8,649	29,297	1,230	3,964	14,771
Dothan.....	21,584	57	2,045	5,880	1,600	3,563	4,030	11,056	809	1,271	5,526
Fairfield.....	13,177	20	771	3,317	646	1,327	2,451	8,750	369	358	1,814
Florence.....	23,879	26	1,791	4,323	1,562	2,970	3,542	7,087	513	1,006	3,951
Gadsden.....	55,725	64	11,959	44,741	10,644	19,506	37,621	97,130	1,214	13,701	64,377
Homewood.....	12,866	2	48	114	23	49	49	214	23	(NA)	(NA)
Huntsville.....	16,437	40	1,273	3,816	1,041	2,085	2,724	7,208	716	1,880	7,651
Mobile.....	129,009	134	7,092	25,544	5,806	11,813	19,211	64,510	2,462	8,337	45,325
Montgomery.....	106,525	137	5,389	15,348	3,972	8,006	9,821	29,373	1,340	4,503	20,062
Opelika.....	12,295	32	1,633	(D)	1,396	(D)	(D)	(D)	(D)	(NA)	(NA)
Phenix City.....	23,305	18	232	548	201	426	460	966	61	170	564
Prichard.....	19,014	15	359	848	289	561	636	1,512	66	(NA)	(NA)
Selma.....	22,840	42	1,842	3,762	1,642	3,076	2,900	6,361	384	1,924	6,127
Sheffield.....	10,767	21	912	2,952	740	1,448	2,046	5,307	268	(NA)	(NA)
Talladega.....	13,134	31	2,075	5,242	1,916	3,620	4,574	8,758	198	(NA)	(NA)
Tuscaloosa.....	46,396	64	1,960	5,078	1,570	3,060	3,528	10,175	1,449	2,158	12,283

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>The 1947 data are not strictly comparable with the figures shown for 1954 due to differences in coverage of loggers and fluid milk distributors.  
See discussion in Introduction and footnotes to Table 4.



Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954										1947	
		Establish- ments, number		All employees		Production workers			Value added by manufacture	Value of shipments	Capital expendi- tures, new	All employees, number	Value added by manufacture
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
	All industries, total <sup>1</sup> ...	3,893	1,152	217,084	672,109	188,414	357,780	528,618	1,319,192	(2)	82,248	3206,239	3877,416
20	Food and kindred products..	531	170	16,073	45,754	10,161	20,661	23,621	95,528	(2)	6,208	(4)	(4)
201	Meat products.....	62	34	3,358	8,920	2,677	5,370	6,272	17,172	(2)	1,081	2,295	10,142
2011	Meat packing plants.....	35	19	1,744	5,657	1,305	2,821	3,774	10,125	(2)	683	1,546	6,848
202	Dairy products.....	102	34	3,004	9,672	1,461	3,154	3,841	22,529	(2)	(D)	(4)	(4)
2024	Ice cream and ices.....	28	9	608	1,741	381	816	945	5,800	11,306	410	(4)	(4)
2027	Fluid milk and other products..	58	25	2,270	7,638	986	2,170	2,700	15,895	41,317	1,069	(4)	(4)
2035	Pickles and sauces.....	7	2	212	381	171	319	262	891	3,383	29	122	542
204	Grain mill products.....	52	8	1,463	4,906	998	2,473	3,130	12,668	(2)	741	1,169	6,577
2041	Flour and meal.....	17	1	399	1,354	223	496	705	5,017	21,215	505	(D)	(D)
2042	Prepared animal feeds.....	35	7	1,063	3,551	774	1,976	2,424	7,651	43,464	236	917	4,704
205	Bakery products.....	54	26	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2051	Bread and related products....	50	24	2,869	9,164	1,702	3,579	4,458	14,213	31,678	1,106	2,286	(D)
207	Candy and related products...	17	7	355	670	313	588	560	1,499	4,910	54	408	1,040
2071	Confectionery products.....	17	7	355	670	313	588	560	1,499	4,910	54	408	1,040
208	Beverages.....	108	37	2,259	5,751	1,028	1,887	1,793	11,445	23,114	1,010	2,131	10,123
2081	Bottled soft drinks.....	108	37	2,259	5,751	1,028	1,887	1,793	11,445	23,114	1,010	2,131	10,123
2097	Manufactured ice.....	89	6	778	1,648	425	846	742	2,816	3,620	143	1,185	5,330
2099	Food preparations, n.e.c.....	28	10	766	2,272	525	939	1,013	7,546	30,599	251	(D)	(D)
21	Tobacco manufactures.....	2	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
22	Textile mill products.....	113	104	46,440	110,876	44,288	79,876	99,292	166,535	(2)	7,294	52,143	216,373
222	Yarn and thread mills.....	24	24	7,057	16,075	6,786	11,398	14,614	23,733	86,009	841	10,056	33,390
2224	Yarn mills, cotton system.....	24	24	7,057	16,075	6,786	11,398	14,614	23,733	86,009	841	(D)	(D)
223	Broad-woven fabrics.....	38	38	23,978	69,501	27,732	49,880	62,810	100,887	(2)	4,721	32,345	150,712
2241	Narrow fabric mills.....	6	6	596	1,710	533	1,106	1,290	2,702	5,408	153	497	(D)
225	Knitting mills.....	30	24	5,952	13,462	5,658	10,368	12,000	20,846	(2)	960	5,190	18,066
2252	Seamless hosiery mills.....	16	11	1,444	2,693	1,382	2,387	2,401	3,688	6,515	257	1,307	2,331
227	Carpets and rugs.....	4	2	141	266	131	263	230	485	1,305	14	(D)	(D)
2273	Carpets and rugs, except wool..	4	2	141	266	131	263	230	485	1,305	14	594	(D)
229	Miscellaneous textile goods..	7	6	1,541	3,661	1,446	2,601	3,163	8,906	(2)	315	1,799	6,360
23	Apparel and related prod- ucts.....	139	93	18,351	34,327	17,343	31,168	30,135	64,397	(2)	1,717	8,190	21,031
232	Men's and boys' furnishings..	61	56	11,692	21,562	11,122	20,203	18,922	38,024	(2)	763	5,116	11,757
2321	Men's dress shirts & nightwear.	25	25	6,107	11,114	5,850	10,792	10,141	18,534	35,760	380	3,090	5,972
2327	Separate trousers.....	13	12	2,646	5,540	2,471	4,651	4,491	10,276	20,145	193	631	1,543
2329	Men's & boys' clothing, n.e.c..	15	13	2,232	3,671	2,160	3,543	3,255	7,411	24,579	168	589	1,727
233	Women's and misses' outerwear	8	4	285	464	270	480	411	701	(2)	46	(D)	(D)
2334	Dresses, dozen price.....	4	3	241	384	227	397	340	624	1,042	(D)	132	(D)
234	Women's undergarments.....	14	14	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2341	Women's & children's underwear.	11	11	2,953	5,724	2,748	4,815	5,230	14,471	31,638	179	266	(D)
2342	Corsets and allied garments....	3	3	201	418	198	365	386	551	596	30	...	...
238	Miscellaneous apparel.....	4	2	1,103	1,872	1,044	1,888	1,654	2,713	(2)	458	(D)	(D)
239	Fabricated textiles, n.e.c....	41	9	1,509	3,187	1,394	2,592	2,647	6,542	(2)	207	1,952	6,578
2392	Housefurnishings, n.e.c.....	11	5	1,146	2,466	1,076	2,011	2,098	5,325	27,988	140	1,567	5,363
24	Lumber and wood products...	1,839	312	28,386	52,025	26,380	48,672	44,570	86,629	(2)	5,366	(4)	(4)
2411	Logging camps and contractors	598	10	2,910	4,094	2,576	3,977	3,609	8,137	14,663	894	(4)	(4)
242	Lumber and basic products....	1,101	246	20,658	36,754	19,479	36,050	31,954	56,728	(2)	3,626	33,798	89,913
2421	Sawmills and planing mills....	1,070	223	19,398	34,326	18,277	33,797	29,807	53,046	127,997	3,542	31,394	84,350
2422	Veneer mills.....	20	14	823	1,584	779	1,513	1,385	2,250	4,460	83	1,034	2,477
243	Millwork and related products	55	15	1,728	4,745	1,458	3,162	3,466	10,162	(2)	328	1,235	4,465
2431	Millwork plants.....	51	11	1,022	2,831	849	1,859	2,070	6,549	17,763	259	572	(D)
244	Wooden containers.....	41	26	1,460	2,454	1,374	2,498	2,210	4,343	(2)	105	1,258	3,198
2444	Wooden boxes.....	30	23	1,319	2,214	1,236	2,270	1,978	3,911	8,281	97	1,002	2,645
249	Miscellaneous wood products..	44	15	1,629	3,977	1,491	2,984	3,329	7,257	(2)	411	1,140	3,666
2491	Wood preserving.....	15	7	1,125	2,862	1,032	2,131	2,394	5,478	13,298	326	783	2,874
25	Furniture and fixtures.....	106	26	1,981	4,961	1,701	3,306	3,716	8,404	(2)	285	1,558	4,972
251	Household furniture.....	73	23	1,677	4,030	1,460	2,800	3,099	6,775	(2)	246	1,306	4,085
2511	Wood furniture, not upholstered	33	15	895	2,045	796	1,526	1,679	3,503	8,114	(D)	493	816
2512	Upholstered household furniture	12	4	328	688	291	581	559	1,221	2,554	34	(D)	(D)
2541	Partitions and fixtures.....	8	1	114	332	94	222	252	405	754	4	95	(D)
26	Pulp, paper and products...	31	26	8,668	35,002	7,495	15,809	28,489	77,069	(2)	6,663	5,700	39,899
261	Pulp, paper and board.....	15	14	5,421	23,844	4,606	9,997	19,330	60,436	(2)	4,327	3,546	27,961
2611	Pulp mills.....	8	7	2,609	12,034	2,162	4,739	9,558	30,806	61,586	2,822	1,307	12,690
2661	Paper bags.....	6	5	2,334	8,666	2,104	4,377	7,498	12,927	40,998	2,078	(D)	(D)
2671	Paperboard boxes.....	5	4	718	2,102	610	1,112	1,327	2,858	6,898	93	(D)	(D)

See footnotes at end of table.

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
27	Printing and publishing....	266	39	4,769	18,471	3,072	6,011	11,714	35,296	(2)	1,664	3,742	19,764
2711	Newspapers.....	115	16	2,836	11,645	1,699	3,365	7,142	21,845	31,749	826	2,176	12,246
2721	Periodicals.....	11	2	317	1,450	150	289	698	4,369	6,649	109	352	2,502
273	Books.....	8	1	141	426	61	121	232	707	(2)	36	(D)	(D)
2751	Commercial printing.....	90	14	934	3,099	720	1,336	2,184	5,224	8,332	318	978	4,093
2761	Lithographing.....	17	3	242	1,058	193	397	857	1,512	3,161	(D)	(D)	(D)
279	Printing trade services.....	11	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2792	Engraving and plate printing...	4	1	136	318	129	273	284	470	880	(D)	115	(D)
28	Chemicals and products.....	147	72	7,410	27,754	5,539	11,624	18,455	82,930	(2)	7,496	8,204	46,087
281	Inorganic chemicals.....	6	6	1,187	5,184	919	1,920	3,876	28,919	(2)	1,031	3,204	15,324
285	Paints and allied products...	8	3	228	1,003	139	285	463	1,684	(2)	159	189	1,473
286	Gum and wood chemicals.....	6	2	181	474	156	339	376	1,073	(2)	11	398	2,414
287	Fertilizers.....	41	22	1,135	2,932	934	1,962	2,089	5,559	(2)	335	1,435	7,917
2871	Fertilizers.....	13	13	615	1,702	522	1,162	1,319	3,549	13,361	199	868	5,169
2872	Fertilizers, mixing only.....	28	9	520	1,230	412	800	769	2,009	9,796	135	567	2,748
288	Vegetables and animal oils...	28	20	989	2,780	796	1,798	1,813	4,429	(2)	728	1,358	8,347
2881	Cottonseed oil mills.....	21	18	883	2,462	716	1,608	1,592	3,932	23,365	(D)	961	6,362
289	Chemical products, n.e.c.....	32	4	343	1,150	248	474	680	3,234	(2)	(D)	(D)	(D)
2897	Insecticides and fungicides....	9	2	117	321	93	183	199	819	5,437	8	28	(D)
29	Petroleum and coal products	28	16	3,253	14,016	2,818	5,421	11,272	65,872	(2)	5,736	2,795	32,691
2911	Petroleum refining.....	5	4	247	1,124	170	340	745	4,091	13,175	598	(D)	(D)
295	Paving and roofing materials.	13	4	584	2,343	492	999	1,806	6,524	(2)	353	(D)	(D)
2951	Paving mixtures and blocks.....	9	1	167	598	147	283	471	1,214	3,418	160	117	732
2952	Roofing felts and coatings.....	4	3	417	1,745	344	715	1,334	5,310	13,684	193	(D)	(D)
30	Rubber products.....	15	7	5,111	24,745	4,485	9,472	21,119	64,271	(2)	2,744	4,701	(D)
31	Leather and leather goods..	4	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
32	Stone, clay, and glass products.....	188	80	7,310	24,548	6,331	12,803	19,477	59,171	(2)	5,837	6,290	30,904
3241	Cement, hydraulic.....	9	9	1,645	6,505	1,404	2,885	5,134	23,374	36,323	2,382	1,744	12,982
325	Structural clay products....	26	24	1,735	5,155	1,618	3,310	4,448	9,170	(2)	1,834	1,631	5,233
3251	Brick and hollow tile.....	20	18	1,120	3,274	1,049	2,244	2,780	5,648	7,825	447	1,074	(D)
326	Pottery and related products.	7	4	238	806	207	397	639	1,291	(2)	44	(D)	(D)
327	Concrete and plaster products	108	29	1,887	5,366	1,525	3,037	3,905	11,148	(2)	816	1,532	5,814
3271	Concrete products.....	99	20	1,365	3,745	1,063	2,055	2,582	7,769	13,943	697	1,163	4,219
3281	Cut-stone and stone products.	13	4	478	1,421	408	850	1,125	2,119	2,738	98	61	(D)
329	Nonmetallic mineral products, n.e.c.....	22	8	1,005	4,348	866	1,762	3,368	9,994	(2)	566	1,278	6,548
3295	Minerals: ground or treated....	17	6	577	2,673	490	987	1,951	6,405	9,220	335	506	(D)
33	Primary metal industries...	88	69	37,508	159,793	32,440	63,488	130,084	314,094	(2)	21,112	39,295	169,744
331	Blast furnaces and steel mills.....	17	17	20,382	93,399	17,085	32,568	74,372	191,318	(2)	11,713	23,043	98,508
332	Iron and steel foundries....	54	44	12,991	48,395	11,911	23,743	41,528	81,511	(2)	6,760	(D)	(D)
34	Fabricated metal products..	160	64	8,716	33,248	7,167	13,918	24,228	68,191	(2)	3,542	7,364	38,249
343	Heating and plumbing equipment.....	8	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3439	Heating and cooking equipment..	7	6	813	2,202	716	1,334	1,640	3,179	5,951	104	1,835	7,091
344	Structural metal products....	98	38	5,958	24,250	4,782	9,453	17,266	48,984	(2)	2,844	4,201	23,725
3441	Structural and ornamental work.	53	25	3,879	15,272	2,964	5,909	10,316	31,693	62,993	1,481	2,730	12,513
3442	Metal doors, sash, and trim....	5	3	398	1,302	370	632	881	2,799	3,980	(D)	108	(D)
3443	Boiler shop products.....	12	7	1,208	5,895	1,111	2,285	4,974	11,846	29,257	1,037	877	(D)
3444	Sheet-metal work.....	28	3	472	1,780	335	625	1,094	2,645	5,302	(D)	486	(D)
348	Fabricated wire products....	16	6	470	1,690	412	773	1,389	4,065	(2)	83	(D)	(D)
349	Metal products, n.e.c.....	19	10	1,069	4,069	896	1,772	3,057	10,082	(2)	393	974	4,819
3491	Metal barrels, drums, and pails	4	4	292	1,047	237	521	751	2,913	6,665	69	(D)	(D)
3494	Bolts, nuts, washers and rivets	6	4	661	2,643	566	1,072	2,039	6,483	11,066	(D)	749	(D)
35	Machinery, except electrical.....	106	30	5,983	24,192	4,773	9,175	16,442	35,110	(2)	3,126	6,956	26,455
352	Tractors and farm machinery..	17	7	825	3,063	597	1,220	1,851	5,424	(2)	364	(D)	(D)
355	Special-industry machinery, n.e.c.....	14	6	760	2,807	654	1,290	2,215	4,448	(2)	148	826	2,673
3559	Special-industry machinery, nec	8	2	620	2,311	547	1,082	1,894	3,818	5,822	112	(D)	(D)
356	General industrial machinery.	9	6	1,239	5,256	886	1,672	3,175	5,848	(2)	310	(D)	(D)
358	Service and household machines.....	4	3	261	909	163	361	482	629	(2)	(D)	(D)	(D)
359	Miscellaneous machinery parts	51	5	2,551	10,655	2,170	4,025	7,633	16,501	(2)	1,060	2,771	12,548
3591	Valves and fittings, exc. plbg.	3	3	2,166	9,155	1,837	3,308	6,475	13,919	23,587	884	2,534	11,826
3599	Machine shops.....	39	1	298	1,140	259	563	900	2,001	3,137	124	199	588

See footnotes at end of table.



Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establish- ments, number		All employees		Production workers			Value added by manufacture	Value of shipments	Capital expendi- tures, new	All employees, number	Value added by manufacture
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
36	Electrical machinery.....	16	10	2,598	8,084	2,247	4,414	6,181	19,541	(2)	1,901	(D)	(D)
361	Electrical industrial appa- ratus.....	6	5	722	2,979	533	1,137	1,830	4,750	(2)	1,452	(D)	(D)
37	Transportation equipment...	44	12	11,029	43,902	9,062	15,682	31,221	56,872	(2)	627	7,929	35,131
371	Motor vehicles and equipment.	20	7	1,143	4,092	909	1,918	2,811	6,236	(2)	139	627	4,440
3713	Truck and bus bodies.....	9	1	204	737	168	371	511	816	2,137	29	54	(D)
3715	Truck trailers.....	7	3	467	1,619	338	809	1,092	2,402	6,460	47	247	(D)
3717	Motor vehicles and parts.....	4	3	472	1,735	403	738	1,207	3,017	(2)	62	326	(D)
38	Instruments and related products.....	10	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	45	223
39	Miscellaneous manufactures <sup>5</sup>	60	19	2,272	7,850	1,947	4,039	6,312	13,466	(2)	631	600	1,455
394	Toys and sporting goods.....	13	4	386	1,148	322	641	811	1,915	(2)	110	(D)	(D)
3949	Sporting and athletic goods....	8	2	133	399	114	225	278	779	1,638	29	...	...
398	Miscellaneous manufactures...	38	12	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3988	Morticians' goods.....	9	4	220	566	177	338	359	875	1,898	66	316	640

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industries (4-digit) and industry groups (3-digit) are not shown. Industries and industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate Major industry group (2-digit) lines and the "all industries" line.

<sup>2</sup>The total value of shipments figures for industry groups and a few individual industries have not been published due to the extensive and unmeasurable duplication arising from shipments from one establishment to another in the same industry classification. (See Introduction.)

<sup>3</sup>The 1954 and 1947 "all industries" totals are not strictly comparable because of differences in scope between the two years in major groups 20 and 24 (see footnote 4).

<sup>4</sup>Comparable data for Major groups 20 and 24 are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude establishments in S.I.C. Industry 2411, Logging Camps and Contractors, which are included in the scope of the 1954 Census; the 1947 Census also excludes plants processing and distributing fluid milk which in 1954 were classified in Industry Group 202, Dairy products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
20	Food and kindred products except subgroup 202, Dairy products.....	13,069	72,999	11,221	52,040
24	Lumber and wood products except Industry 2411, Logging camps and contractors.....	25,476	78,492	37,431	101,242

<sup>5</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)

## MANUFACTURES—AREA STATISTICS

Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947  
(For explanation of column captions see Introduction)

Code	Industry group	Establishments, number	1954							1947	
			All employees		Production workers			Value added by manufacture	Capital expenditures, new	All employees, number	Value added by manufacture
			Number	Payroll (\$1,000)	Number	Man-hours ((1,000)	Wages (\$1,000)				
			BIRMINGHAM STANDARD METROPOLITAN AREA (Consists of Jefferson County, Alabama)								
	All industries, total <sup>1</sup> ...	605	57,762	256,624	46,169	89,227	170,682	481,580	31,518	253,359	2275,630
20	Food and kindred products...	97	5,287	17,279	3,226	6,713	8,656	33,769	1,831	( <sup>3</sup> )	( <sup>3</sup> )
201	Meat products.....	13	960	2,960	734	1,554	2,073	5,448	220	940	4,142
202	Dairy products.....	20	1,014	3,805	402	803	1,168	6,704	(D)	( <sup>3</sup> )	( <sup>3</sup> )
204	Grain mill products.....	4	743	2,801	524	1,418	1,868	5,876	122	(D)	(D)
205	Bakery products.....	14	1,245	3,943	759	1,448	1,976	5,196	534	1,342	5,193
207	Candy and related products.....	4	106	210	86	167	156	706	21	(D)	(D)
208	Beverages.....	12	419	1,017	195	416	347	2,118	272	(D)	(D)
22	Textile mill products.....	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1,275	5,314
23	Apparel and related products	19	1,051	2,137	945	1,694	1,539	3,184	39	885	2,844
232	Men's and boys' furnishings....	8	770	1,540	694	1,280	1,102	2,220	32	522	1,619
24	Lumber and wood products....	66	1,466	3,080	1,303	2,504	2,443	4,378	148	1,636	4,739
242	Lumber and basic products.....	40	1,075	2,147	994	1,905	1,768	2,597	102	881	2,776
243	Millwork and related products..	12	170	530	131	287	363	1,031	27	(D)	(D)
25	Furniture and fixtures.....	31	653	1,998	524	1,000	1,315	3,678	93	765	2,798
251	Household furniture.....	19	506	1,498	415	779	1,036	2,533	61	646	2,319
26	Pulp, paper and products....	4	572	1,749	476	845	1,044	2,546	169	355	(D)
27	Printing and publishing.....	73	1,990	8,828	1,310	2,622	5,420	17,816	659	1,890	10,700
275	Commercial printing.....	32	481	1,907	356	708	1,241	3,386	159	537	2,337
28	Chemicals and products.....	37	1,193	4,828	957	1,856	3,414	11,868	801	1,215	10,316
282	Organic chemicals.....	5	594	2,655	490	868	1,993	7,227	425	595	5,701
287	Fertilizers.....	3	182	561	164	365	464	923	15	201	1,547
289	Chemical products, n.e.c.....	16	167	641	115	221	369	1,680	(D)	178	1,082
29	Petroleum and coal products <sup>4</sup>	10	2,451	10,469	2,176	4,130	8,628	53,163	4,906	2,044	27,120
293	Beehive coke ovens.....	5	2,098	9,017	1,862	3,495	7,427	49,646	(D)	(D)	(D)
30	Rubber products.....	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
32	Stone, clay, & glass products	48	2,952	11,031	2,520	5,097	8,698	30,254	3,526	3,177	18,346
324	Cement, hydraulic.....	5	948	3,795	806	1,671	3,043	15,159	1,511	1,054	8,578
325	Structural clay products.....	9	746	2,295	687	1,316	1,983	3,650	1,406	809	2,974
327	Concrete and plaster products..	19	625	2,008	487	1,011	1,467	4,356	279	508	2,449
33	Primary metal industries....	45	22,284	102,655	18,627	36,998	80,935	204,631	14,632	23,857	111,148
332	Iron and steel foundries.....	21	5,083	22,951	4,432	9,583	18,471	45,907	2,761	(D)	(D)
34	Fabricated metal products...	80	5,737	23,547	4,589	9,186	16,837	50,300	2,945	5,240	27,121
344	Structural metal products.....	54	4,415	18,819	3,492	7,017	13,354	38,752	2,466	3,349	17,339
349	Metal products, n.e.c.....	11	881	3,370	731	1,453	2,518	8,863	371	(D)	(D)
35	Machinery, except electrical	46	3,104	13,304	2,411	4,548	8,400	18,678	1,102	4,237	17,944
355	Special-industry mach., n.e.c..	5	235	996	175	319	596	1,606	88	138	658
359	Miscellaneous mach. parts.....	25	1,604	6,989	1,330	2,523	4,579	11,076	704	(D)	(D)
36	Electrical machinery.....	9	705	2,925	526	1,130	1,802	4,837	267	407	1,748
37	Transportation equipment....	12	7,158	29,069	5,564	9,025	18,590	36,103	117	1,658	(D)
38	Instruments & related prod..	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
39	Miscellaneous manufactures <sup>4</sup>	18	545	2,123	459	924	1,636	3,803	175	353	(D)
398	Miscellaneous manufactures <sup>4</sup> ....	14	446	1,839	378	766	1,442	3,220	131	(D)	(D)

Note: Detailed figures may not add to the totals because of independent rounding. D Withheld to avoid disclosing figures for individual companies. <sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industry groups (3-digit) are not shown. Industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "All industries" line. <sup>2</sup>The 1954 and 1947 "All industries" totals are not strictly comparable because of differences in scope between the two years in Major group 20 (see footnote 3). <sup>3</sup>Comparable data for Major group 20 are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude plants processing and distributing fluid milk which in 1954 were classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
20	Food and kindred products except Subgroup 202, Dairy Products.....	4,273	27,065	4,109	21,530

<sup>4</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordinance and Accessories." (Establishments which are Government-owned and operated are not included.)

Table 6.—GENERAL STATISTICS FOR PRINCIPAL INDUSTRIAL COUNTIES (THOSE WITH 20,000 OR MORE MANUFACTURING EMPLOYEES), BY MAJOR INDUSTRY GROUPS: 1954 AND 1947

(Jefferson County is coextensive with the Birmingham Standard Metropolitan Area, data for which are shown in Table 5.)



Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954

20 Food and kindred products	26 Pulp, paper and products	32 Stone, clay, and glass products	38 Instruments and related products
21 Tobacco manufactures	27 Printing and publishing	33 Primary metal industries	39 Miscellaneous manufactures (Includes Group 19)
22 Textile mill products	28 Chemicals and products	34 Fabricated metal products	Ordnance and accessories)
23 Apparel and related products	29 Petroleum and coal products	35 Machinery, except electrical	
24 Lumber and wood products	30 Rubber products	36 Electrical machinery	
25 Furniture and fixtures	31 Leather and leather goods	37 Transportation equipment	

(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Alabama, total.....	3,893	531	2	113	139	1,839	106	31	266	147	28	15	4	188	88	160	106	16	44	10	60
1 to 4 employees.....	1,426	155	...	3	32	841	41	2	129	27	4	3	2	53	10	42	38	4	14	6	20
5 to 9 employees.....	747	99	...	2	12	402	25	1	70	20	6	2	1	30	3	23	25	1	11	2	12
10 to 19 employees.....	567	108	...	4	3	282	14	2	28	28	2	3	...	25	6	31	12	1	7	2	9
20 to 49 employees.....	504	84	...	5	17	203	12	4	21	44	2	3	...	36	13	27	15	6	2	...	10
50 to 99 employees.....	242	42	1	15	21	69	11	4	12	15	4	...	...	21	9	10	4	...	1	...	3
100 to 249 employees.....	224	36	...	26	33	33	3	7	3	5	6	2	...	19	16	20	6	...	4	...	5
250 to 499 employees.....	100	7	...	26	15	5	...	4	2	6	3	...	1	4	13	4	4	3	2	...	1
500 to 999 employees.....	54	...	1	20	5	4	...	7	1	2	1	...	...	...	9	3	1	...	...	...	...
1,000 to 2,499 employees.....	24	...	...	12	1	...	...	...	...	...	...	1	...	...	6	...	1	1	2	...	...
2,500 employees and over.....	5	...	...	...	...	...	...	...	...	...	...	1	...	...	3	...	...	...	1	...	...
Autauga:																					
1 to 19 employees.....	20	2	...	1	...	15	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	5	1	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
100 employees and over.....	2	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
Baldwin:																					
1 to 19 employees.....	63	7	...	...	...	42	...	...	5	4	...	...	...	2	...	1	2	...	...	...	...
20 to 99 employees.....	12	2	...	...	1	7	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	4	...	...	...	...	3	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
Barbour:																					
1 to 19 employees.....	34	5	...	...	...	22	...	...	2	...	...	...	...	4	...	...	1	...	...	...	...
20 to 99 employees.....	9	1	...	...	...	7	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	4	...	...	3	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Bibb:																					
1 to 19 employees.....	25	1	...	...	...	23	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	5	...	...	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
100 employees and over.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Blount:																					
1 to 19 employees.....	21	2	...	...	1	14	...	...	1	...	...	1	...	2	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Bullock:																					
1 to 19 employees.....	16	3	...	...	...	12	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Butler:																					
1 to 19 employees.....	28	2	...	...	...	23	...	...	2	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	4	...	...	...	1	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	5	...	...	1	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Calhoun:																					
1 to 19 employees.....	63	14	...	...	1	26	1	...	4	2	...	...	...	2	2	3	2	...	1	1	4
20 to 99 employees.....	14	5	...	...	2	2	...	...	2	...	...	...	...	2	...	...	...	...	...	...	...
100 employees and over.....	29	...	...	10	2	...	...	...	...	1	...	...	...	...	10	1	3	1	...	...	1
Chambers:																					
1 to 19 employees.....	30	5	...	...	...	21	1	...	2	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	4	1	...	...	1	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	9	...	...	8	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Cherokee:																					
1 to 19 employees.....	8	...	...	...	...	7	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Chilton:																					
1 to 19 employees.....	37	4	...	...	...	24	2	...	3	1	...	...	...	2	...	...	...	...	...	...	1
20 to 99 employees.....	6	...	...	...	...	4	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Choctaw:																					
1 to 19 employees.....	48	1	...	...	...	44	1	...	1	...	...	...	...	...	...	...	1	...	...	...	...
20 to 99 employees.....	10	...	...	...	...	10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Clarke:																					
1 to 19 employees.....	59	2	...	...	...	50	4	...	2	...	...	...	...	...	...	1	...	...	...	...	...
20 to 99 employees.....	12	...	...	...	...	11	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	5	...	...	1	1	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Clay:																					
1 to 19 employees.....	24	1	...	...	1	21	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	3	...	...	...	1	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Cleburne:																					
1 to 19 employees.....	26	1	...	...	1	23	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Coffee:																					
1 to 19 employees.....	34	9	...	...	1	15	5	...	2	...	...	...	1	1	...	...	...	...	...	...	...
20 to 99 employees.....	7	2	...	...	1	3	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	4	...	...	1	2	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
Colbert:																					
1 to 19 employees.....	25	7	...	...	1	7	1	...	3	...	...	...	...	2	...	3	...	...	...	...	1
20 to 99 employees.....	9	1	...	1	...	2	1	...	...	2	...	1	...	1	...	...	...	...	...	...	...
100 employees and over.....	9	...	...	...	...	...	...	...	...	...	...	1	...	...	3	4	...	...	...	...	1
Conecuh:																					
1 to 19 employees.....	18	1	...	...	...	16	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	8	...	...	...	...	7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
100 employees and over.....	2	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...

(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Coosa:																					
1 to 19 employees.....	27	2	...	...	...	25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	9	2	...	...	...	4	...	...	...	...	...	...	...	1	...	...	...	1	...	...	1
100 employees and over.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Covington:																					
1 to 19 employees.....	46	9	...	...	...	23	1	...	4	2	...	1	1	3	...	...	...	...	...	...	2
20 to 99 employees.....	6	2	...	...	...	3	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	10	...	...	2	6	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...
Crenshaw:																					
1 to 19 employees.....	36	1	...	...	...	33	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...
20 to 99 employees.....	4	1	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Cullman:																					
1 to 19 employees.....	27	6	...	...	...	10	1	...	4	1	...	...	...	...	...	3	2	...	...	...	...
20 to 99 employees.....	9	1	...	...	1	6	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	3	1	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Dale:																					
1 to 19 employees.....	27	1	...	...	1	23	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	6	...	...	...	...	3	1	...	...	1	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Dallas:																					
1 to 19 employees.....	40	8	...	...	4	18	1	...	3	...	1	...	...	1	...	2	...	...	...	...	2
20 to 99 employees.....	25	3	...	...	2	12	...	...	1	2	...	...	...	3	1	...	1	...	...	...	...
100 employees and over.....	6	1	1	...	...	2	...	1	...	...	...	...	...	...	...	1	...	...	...	...	...
De Kalb:																					
1 to 19 employees.....	44	6	...	6	...	25	3	1	2	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	4	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	6	...	...	5	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Elmore:																					
1 to 19 employees.....	21	4	...	...	...	12	...	...	1	1	...	...	...	3	...	...	...	...	...	...	...
20 to 99 employees.....	5	...	...	...	...	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Escambia:																					
1 to 19 employees.....	47	9	...	...	...	28	...	...	3	1	...	...	...	3	...	...	3	...	...	...	...
20 to 99 employees.....	7	...	...	1	...	3	...	...	...	...	...	...	...	2	1	...	...	...	...	...	...
100 employees and over.....	5	...	...	1	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Etowah:																					
1 to 19 employees.....	61	13	...	...	1	17	1	...	7	1	1	...	...	6	2	7	3	...	...	...	2
20 to 99 employees.....	17	5	...	...	...	3	1	...	...	1	1	...	...	3	1	2	...	...	...	...	...
100 employees and over.....	15	1	...	2	...	...	...	...	...	...	1	1	...	1	6	1	1	...	...	...	1
Fayette:																					
1 to 19 employees.....	19	3	...	...	1	13	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	6	1	...	...	...	3	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Franklin:																					
1 to 19 employees.....	18	6	...	...	...	9	...	...	2	...	...	...	...	...	...	...	...	...	...	...	1
20 to 99 employees.....	2	...	...	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Geneva:																					
1 to 19 employees.....	31	5	...	...	...	21	...	...	3	...	...	...	...	...	...	...	2	...	...	...	...
20 to 99 employees.....	5	...	...	1	1	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	3	...	...	1	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Greene:																					
1 to 19 employees.....	14	...	...	...	...	12	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	5	...	...	...	...	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hale:																					
1 to 19 employees.....	19	4	...	...	...	13	...	...	1	...	...	...	...	...	...	1	...	...	...	...	...
20 to 99 employees.....	5	1	...	...	...	3	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Henry:																					
1 to 19 employees.....	31	3	...	...	...	22	...	...	1	2	...	...	...	1	...	...	2	...	...	...	...
20 to 99 employees.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Houston:																					
1 to 19 employees.....	59	17	...	...	1	21	3	...	4	3	...	...	...	5	1	2	...	...	1	...	1
20 to 99 employees.....	14	3	1	...	1	4	1	...	1	2	...	...	...	...	...	...	1	...	...	...	...
100 employees and over.....	7	4	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Jackson:																					
1 to 19 employees.....	43	3	...	...	1	35	...	...	1	...	...	...	...	1	...	...	...	...	...	1	1
20 to 99 employees.....	11	...	...	3	4	3	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	4	...	...	1	1	1	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...
Jefferson:																					
1 to 19 employees.....	339	44	...	...	9	47	23	1	57	24	3	2	...	20	9	37	35	4	7	6	11
20 to 99 employees.....	175	37	...	...	7	18	6	2	13	11	1	1	...	19	14	28	7	3	2	...	6
100 employees and over.....	91	16	...	1	3	1	2	1	3	2	6	...	...	9	22	15	4	2	3	...	1
Lamar:																					
1 to 19 employees.....	28	...	...	...	...	26	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	4	...	...	...	...	3	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Lauderdale:																					
1 to 19 employees.....	20	4	...	...	...	7	1	...	2	...	...	2	...	2	...	1	1	...	...	...	...
20 to 99 employees.....	8	3	...	...	...	...	...	...	1	1	...	...	...	1	...	2	...	...	...	...	...
100 employees and over.....	3	...	...	2	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Lawrence:																					
1 to 19 employees.....	4	1	...	...	...	2	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...



Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954—Continued  
(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Lee:																					
1 to 19 employees.....	40	5	...	...	1	24	1	...	5	1	...	...	...	1	...	...	1	...	...	...	1
20 to 99 employees.....	9	4	...	...	...	1	...	...	...	1	...	...	...	1	...	1	...	1	...	...	...
100 employees and over.....	6	1	...	3	1	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...
Limestone:																					
1 to 19 employees.....	7	1	...	...	...	4	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	4	2	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Lowndes:																					
1 to 19 employees.....	22	1	...	...	...	19	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Macon:																					
1 to 19 employees.....	20	3	...	...	...	13	...	...	1	1	1	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	3	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Madison:																					
1 to 19 employees.....	39	11	...	...	6	6	2	...	5	1	...	...	...	1	1	2	2	1	...	...	1
20 to 99 employees.....	16	5	...	...	1	1	1	...	2	4	...	...	...	1	...	...	1	...	...	...	...
100 employees and over.....	5	...	...	2	...	...	...	...	...	...	...	...	1	...	...	1	1	...	...	...	...
Marengo:																					
1 to 19 employees.....	27	5	...	...	...	15	...	...	2	...	...	...	...	2	...	2	1	...	...	...	...
20 to 99 employees.....	8	2	...	...	...	5	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	4	...	...	...	1	2	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Marion:																					
1 to 19 employees.....	24	3	...	...	...	18	...	...	1	...	...	...	...	1	...	...	...	...	1	...	...
20 to 99 employees.....	4	...	...	...	1	2	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	5	...	...	1	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Marshall:																					
1 to 19 employees.....	31	6	...	1	...	10	1	...	4	...	...	1	...	1	...	3	1	...	3	...	...
20 to 99 employees.....	4	...	...	1	...	2	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...
100 employees and over.....	6	2	...	3	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...
Mobile:																					
1 to 19 employees.....	157	29	...	...	6	39	5	3	25	9	...	...	...	6	1	7	5	1	17	1	3
20 to 99 employees.....	36	14	...	...	1	7	...	4	3	3	...	...	...	2	...	1	...	...	1	...	...
100 employees and over.....	33	4	...	...	1	7	...	9	1	3	2	...	...	2	...	1	1	...	2	...	...
Monroe:																					
1 to 19 employees.....	23	2	...	...	...	21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	8	1	...	...	...	4	1	...	1	1	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	4	...	...	...	1	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Montgomery:																					
1 to 19 employees.....	124	13	...	...	2	59	5	...	15	8	3	...	1	4	1	8	...	...	1	1	3
20 to 99 employees.....	48	11	...	...	2	9	4	1	2	10	...	1	...	3	...	1	4	...	...	...	...
100 employees and over.....	20	8	...	1	1	2	1	...	2	1	...	...	...	2	...	1	...	...	1	...	...
Morgan:																					
1 to 19 employees.....	38	6	...	...	...	16	...	...	3	2	1	...	...	2	...	3	3	...	...	...	2
20 to 99 employees.....	16	4	...	1	...	2	...	...	1	2	...	...	...	2	...	1	2	...	...	...	1
100 employees and over.....	10	2	...	2	...	1	...	...	...	1	...	...	...	...	1	1	1	...	1	...	...
Perry:																					
1 to 19 employees.....	22	3	...	...	...	18	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	4	...	...	1	...	2	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
Pickens:																					
1 to 19 employees.....	24	5	...	...	1	16	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	9	...	...	...	1	8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
Pike:																					
1 to 19 employees.....	50	4	...	...	1	34	4	...	3	2	...	...	...	1	...	...	1	...	...	...	...
20 to 99 employees.....	11	3	...	...	...	7	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Randolph:																					
1 to 19 employees.....	37	4	...	...	...	27	...	...	2	1	...	...	...	3	...	...	...	...	...	...	...
20 to 99 employees.....	4	...	...	...	2	...	...	...	...	1	...	...	...	...	1	...	...	...	...	...	...
100 employees and over.....	3	...	...	2	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Russell:																					
1 to 19 employees.....	44	2	...	...	...	29	1	...	3	...	...	...	...	2	1	3	1	...	...	...	2
20 to 99 employees.....	9	...	...	...	...	3	...	...	...	1	...	...	...	4	1	...	...	...	...	...	...
St. Clair:																					
1 to 19 employees.....	19	3	...	...	...	14	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...
20 to 99 employees.....	2	...	...	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	1	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Shelby:																					
1 to 19 employees.....	50	...	...	...	...	39	1	...	2	1	...	...	...	4	...	1	1	...	...	...	1
20 to 99 employees.....	12	...	...	...	...	6	...	...	...	...	...	...	...	4	1	...	...	1	...	...	...
100 employees and over.....	4	...	...	2	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...
Sumter:																					
1 to 19 employees.....	24	2	...	...	...	21	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	5	...	...	...	1	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Talladega:																					
1 to 19 employees.....	56	10	...	1	2	25	1	...	5	1	...	...	...	6	1	2	1	...	...	...	1
20 to 99 employees.....	15	1	...	1	1	6	...	...	...	2	...	...	...	...	1	...	2	...	...	...	1
100 employees and over.....	17	...	...	8	1	...	...	2	...	2	...	...	...	2	2	...	...	...	...	...	...
Tallapoosa:																					
1 to 19 employees.....	50	6	...	...	...	37	...	...	2	1	...	...	...	2	...	...	1	...	...	...	1
20 to 99 employees.....	10	1	...	...	2	5	...	...	1	...	...	...	...	...	1	...	...	...	...	...	...
100 employees and over.....	10	...	...	9	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...

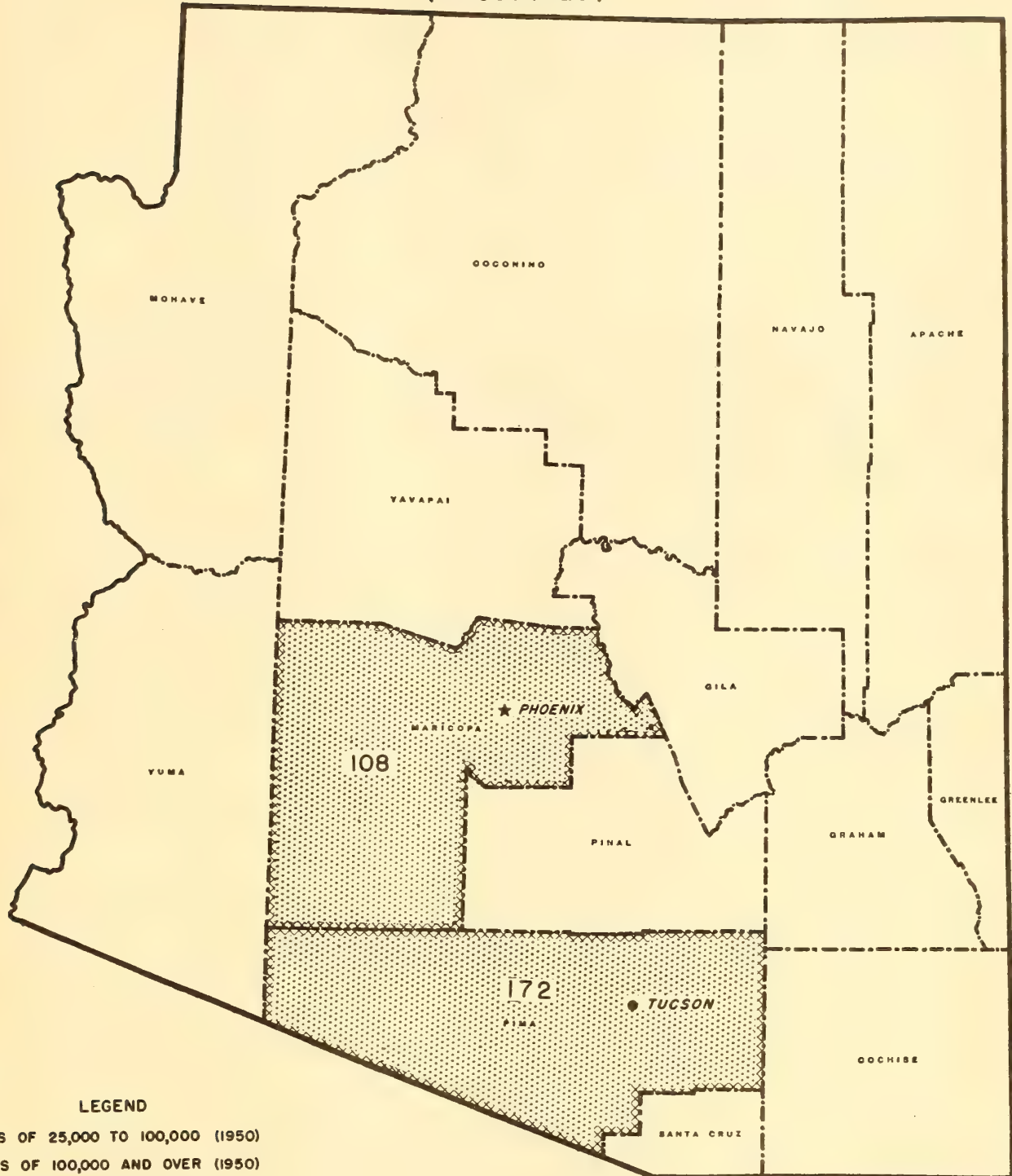
## MANUFACTURES—AREA STATISTICS

Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954—Continued  
 (Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establish- ments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Tuscaloosa:																					
1 to 19 employees.....	66	9	...	...	2	36	2	...	4	4	2	...	...	3	...	3	...	...	1	...	...
20 to 99 employees.....	37	6	...	2	...	17	...	1	3	3	3	...	...	1	...	...	1	...	...	...	...
100 employees and over.....	14	2	...	...	...	4	...	3	...	1	1	1	...	...	1	...	...	...	...	...	1
Walker:																					
1 to 19 employees.....	54	10	...	...	1	34	4	...	2	...	...	1	...	1	...	1	...	...	...	...	...
20 to 99 employees.....	10	...	...	...	...	5	2	...	1	...	1	...	...	...	...	...	...	...	...	...	1
100 employees and over.....	3	...	...	1	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Washington:																					
1 to 19 employees.....	47	1	...	...	1	43	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	9	...	...	...	...	8	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
Wilcox:																					
1 to 19 employees.....	37	...	...	...	...	36	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	5	...	...	...	...	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Winston:																					
1 to 19 employees.....	28	2	...	...	...	25	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
20 to 99 employees.....	4	...	...	...	...	2	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...



# ARIZONA (14 COUNTIES)



## LEGEND

● PLACES OF 25,000 TO 100,000 (1950)

★ PLACES OF 100,000 AND OVER (1950)

 STANDARD METROPOLITAN AREA

## STANDARD METROPOLITAN AREA

CODE	
108	PHOENIX
172	TUCSON

## MANUFACTURES—AREA STATISTICS

Table 1.—MANUFACTURING EMPLOYMENT AT OPERATING ESTABLISHMENTS AND CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARIES FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS

(This table includes data for all manufacturing employees including those located in central administrative offices and auxiliaries. Tables 2-7 in this report include data for operating establishments only. For explanation of column captions see Introduction)

State, standard metropolitan areas, and year <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	(Number)	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
Arizona:						
1954.....	26,269	111,072	26,090	109,868	179	1,204
1953 <sup>2</sup> .....	24,066	99,998	23,565	97,778	501	2,220
1952 <sup>2</sup> .....	21,343	80,695	20,968	79,103	375	1,592
1951 <sup>2</sup> .....	17,790	62,423	17,415	60,831	375	1,592
1950 <sup>2</sup> .....	14,721	49,749	14,695	49,621	26	128
1949 <sup>2</sup> .....	14,257	43,971	14,252	43,947	5	24
1954						
Standard metropolitan areas:						
Phoenix <sup>4</sup> .....	15,831	67,215	15,717	66,438	114	777
Tucson <sup>5</sup> .....	4,548	20,134	4,548	20,134	...	...

<sup>1</sup>Employment data for administrative offices and auxiliaries on a State basis are not available for the years prior to 1949. Similar data for standard metropolitan areas are available only for 1954. <sup>2</sup>The employment figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period. The employment figures for administrative and auxiliary units were compiled chiefly from Bureau of Old-Age and Survivors Insurance records and are not strictly comparable with the figures for these units that were collected by the Bureau of the Census for the year 1954. <sup>3</sup>The 1951 data are shown for 1952 as auxiliary and administrative unit data were not collected in 1952. <sup>4</sup>The Phoenix Standard Metropolitan Area consists of Maricopa County, Arizona. <sup>5</sup>The Tucson Standard Metropolitan Area consists of Pima County, Arizona.

Table 2.—GENERAL STATISTICS FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1954 AND EARLIER YEARS (For explanation of column captions see Introduction)

Year	Establish- ments, number	All employees		Production workers		Value added by manufacture (\$1,000)		
		Number	Payroll (\$1,000)	Number	Wages (\$1,000)			
ARIZONA								
1954 <sup>1</sup> .....	}	817	26,090	109,868	20,267	80,563	192,497	
1953 <sup>2</sup> .....		(NA)	{	23,565	97,778	17,113	69,368	231,128
1952 <sup>2</sup> .....				20,968	79,103	15,908	58,322	159,753
1951 <sup>2</sup> .....				17,415	60,831	14,018	47,683	156,762
1950 <sup>2</sup> .....				14,695	49,621	11,470	35,744	127,946
1949 <sup>2</sup> .....				14,252	43,947	10,229	30,466	91,681
1947.....	544	14,188	39,333	11,167	29,680	83,829		
1939.....	313	7,996	10,988	5,905	6,955	31,625		
1937.....	290	8,481	11,425	7,193	8,602	33,635		
1935.....	272	5,748	7,241	4,748	5,034	16,173		
1933.....	223	(NA)	(NA)	4,181	4,153	12,487		
1931.....	292	(NA)	(NA)	6,295	8,011	25,121		
1929.....	348	12,209	19,343	10,550	15,075	32,289		
1927.....	300	(NA)	(NA)	8,967	12,133	39,825		
1925.....	294	(NA)	(NA)	9,127	11,506	46,511		
1923.....	283	(NA)	(NA)	9,008	12,635	42,384		
1921.....	269	(NA)	(NA)	4,774	6,809	12,616		
1919.....	399	9,652	14,725	8,297	11,658	27,478		
1914.....	319	7,726	7,626	6,878	6,229	24,777		
1909.....	311	6,941	6,303	6,441	5,505	16,656		
1904.....	169	5,084	4,441	4,793	3,969	13,488		
1899.....	154	3,331	2,557	3,126	2,287	12,562		
STANDARD METROPOLITAN AREAS (None with 40,000 or more manufacturing employees in this State)								

NA Not available.

<sup>1</sup>The 1954 figures include data for establishments engaged in the processing and distribution of fluid milk, Industry Group 202, Dairy Products. These establishments were not included in the figures for the Annual Survey years 1949-1953 or earlier Census years. In addition, the 1954 Census and Annual Survey years include data for Logging Camps and Contractors, Industry 2411, which were not included within the scope of the 1947 Census. See footnotes to Table 4 for comparable 1954 and 1947 totals. There were also a number of changes in the definition of manufacturing industries during earlier Census years that affect the comparability of the historical series. Among the more important of these were: figures for 1935 and later years exclude data for "Railroad repair shops" and "manufactured gas" which were included in 1899-1933 figures; the minimum size of establishment included for 1954 and 1947 was one employee, for 1939-1921 manufacturing establishments reporting value of shipments of \$5,000 or more were within scope whereas for 1919 and earlier years the cut-off was \$500. (This change in procedure has not appreciably affected the comparability of the historical data except for the figures on number of establishments.)

<sup>2</sup>The employment and payroll figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period.



## ARIZONA

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Table 3.--GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947

(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
Arizona, total.....	749,587	817	26,090	109,868	20,267	42,319	80,563	192,497	13,800	(1)	(1)
STANDARD METROPOLITAN AREAS											
Phoenix.....	331,770	461	15,717	66,438	11,935	24,773	47,652	115,281	7,456	7,449	39,656
Tucson.....	141,216	150	4,548	20,134	3,340	6,705	13,872	37,438	2,167	1,174	6,015
COUNTIES											
Apache.....	27,767	15	876	(D)	764	(D)	(D)	(D)	(D)	877	(D)
Cochise.....	31,488	26	1,104	4,960	896	2,043	3,931	6,818	750	1,100	(D)
Coconino.....	23,910	20	711	2,968	653	1,496	2,707	3,774	1,728	869	(D)
Gila.....	24,158	21	939	4,018	792	1,576	3,174	6,873	218	826	9,404
Graham.....	12,985	9	89	271	63	126	198	572	97	61	502
Greenlee.....	12,805	5	396	(D)	357	(D)	(D)	(D)	(D)	430	(D)
Maricopa.....	331,770	461	15,717	66,438	11,935	24,773	47,652	115,281	7,456	7,449	39,656
Mohave.....	8,510	7	22	76	18	36	53	144	(D)	19	(D)
Navajo.....	29,446	31	557	1,798	488	864	1,476	3,387	182	442	2,751
Pima.....	141,216	150	4,548	20,134	3,340	6,705	13,872	37,438	2,167	1,174	6,015
Pinal.....	43,191	21	407	1,552	357	756	1,351	3,053	367	231	(D)
Santa Cruz.....	9,344	5	64	106	58	106	92	208	(D)	26	91
Yavapai.....	24,991	22	299	827	274	543	673	1,550	197	457	(D)
Yuma.....	28,006	24	354	1,297	265	538	843	2,306	143	227	1,156
CITIES WITH 10,000 INHABI- TANTS OR MORE											
Mesa.....	16,790	18	262	913	178	307	527	1,290	156	(NA)	(NA)
Phoenix.....	106,818	271	7,698	33,235	5,620	11,869	22,988	57,844	3,062	3,234	21,935
Tucson.....	45,454	104	1,424	4,920	971	1,758	3,043	9,302	1,408	1,045	5,482

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>The 1947 data are not strictly comparable with the figures shown for 1954 due to differences in coverage of loggers and fluid milk distributors. See discussion in Introduction and footnotes to Table 4.

## MANUFACTURES—AREA STATISTICS

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947

(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establish- ments, number		All employees		Production workers			Value added by manufacture	Value of shipments	Capital expendi- tures, new	All employees, number	Value added by manufacture
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
	All industries, total <sup>1</sup> ...	817	175	26,090	109,868	20,267	42,319	80,563	192,497	( <sup>2</sup> )	13,800	( <sup>3</sup> )	( <sup>3</sup> )
20	Food and kindred products..	203	50	4,523	17,943	2,604	5,509	8,797	38,385	( <sup>2</sup> )	2,674	( <sup>3</sup> )	( <sup>3</sup> )
201	Meat products.....	21	4	594	2,352	466	1,032	1,763	4,512	( <sup>2</sup> )	331	564	2,105
2011	Meat packing, plants.....	12	3	514	2,060	399	903	1,537	4,019	24,170	312	530	2,049
202	Dairy products.....	43	12	1,325	5,462	560	1,233	2,010	10,081	( <sup>2</sup> )	785	( <sup>3</sup> )	( <sup>3</sup> )
2024	Ice cream and ices.....	9	3	203	774	111	234	369	1,844	3,889	114	( <sup>3</sup> )	( <sup>3</sup> )
2027	Fluid milk and other products..	22	8	1,074	4,507	410	923	1,523	7,902	25,475	640	( <sup>3</sup> )	( <sup>3</sup> )
203	Canned and frozen foods.....	10	2	150	348	130	285	270	794	( <sup>2</sup> )	36	65	(D)
204	Grain mill products.....	19	7	547	2,184	282	627	956	3,383	( <sup>2</sup> )	393	466	3,179
205	Bakery products.....	35	9	818	3,497	488	1,054	1,778	6,882	13,262	365	664	3,787
2051	Bread and related products....	35	9	818	3,497	488	1,054	1,778	6,882	13,262	365	644	3,787
208	Beverages.....	32	8	568	2,358	302	571	1,015	8,946	( <sup>2</sup> )	519	437	2,772
209	Miscellaneous foods.....	39	8	500	1,710	357	667	973	3,732	( <sup>2</sup> )	242	938	4,954
2097	Manufactured ice.....	17	5	302	1,013	224	418	611	2,372	3,067	171	840	3,895
23	Apparel and related prod- ucts.....	46	11	785	1,727	708	1,282	1,333	3,641	( <sup>2</sup> )	69	67	271
232	Men's and boys' furnishings..	6	2	122	229	116	223	205	333	( <sup>2</sup> )	(D)	(D)	(D)
233	Women's and misses' outerwear	19	6	355	893	311	559	632	1,652	( <sup>2</sup> )	22	(D)	(D)
2333	Dresses, unit price.....	11	4	206	473	184	318	367	846	1,535	16	...	...
24	Lumber and wood products...	89	27	2,647	10,223	2,350	5,049	8,527	14,702	( <sup>2</sup> )	2,508	( <sup>3</sup> )	( <sup>3</sup> )
242	Lumber and basic products....	42	18	1,936	7,643	1,739	3,890	6,491	10,472	( <sup>2</sup> )	2,290	2,088	10,289
2421	Sawmills and planing mills....	37	17	1,880	7,514	1,690	3,857	6,392	10,229	22,340	2,290	2,088	10,289
243	Millwork and related products	23	4	399	1,566	328	638	1,216	2,473	6,545	130	(D)	(D)
2431	Millwork plants.....	23	4	399	1,566	328	638	1,216	2,473	6,545	130	135	687
244	Wooden containers.....	8	3	156	666	137	293	503	1,145	6,135	31	(D)	(D)
2444	Wooden boxes.....	8	3	156	666	137	293	503	1,145	6,135	31	138	(D)
25	Furniture and fixtures.....	50	3	337	1,127	262	470	769	1,991	( <sup>2</sup> )	46	264	1,077
251	Household furniture.....	29	1	183	568	157	261	443	1,181	( <sup>2</sup> )	22	178	849
26	Pulp, paper and products...	2	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
27	Printing and publishing....	134	16	2,196	8,544	1,350	2,550	5,288	16,646	( <sup>2</sup> )	1,274	1,549	8,761
2711	Newspapers.....	51	9	1,532	6,000	845	1,634	3,420	12,591	16,413	1,056	1,112	6,777
2751	Commercial printing.....	44	5	423	1,689	344	659	1,316	2,512	3,808	102	301	1,303
28	Chemical and products.....	36	11	1,333	5,607	957	2,138	3,410	15,669	( <sup>2</sup> )	923	616	5,771
288	Vegetable and animal oils....	10	6	728	3,029	563	1,356	2,034	10,087	( <sup>2</sup> )	784	237	2,889
29	Petroleum and coal products	4	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	26	(D)
30	Rubber products.....	1	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...	...
31	Leather and leather goods..	9	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
32	Stone, clay and glass prod- ucts.....	64	15	1,005	3,914	820	1,677	2,754	8,480	( <sup>2</sup> )	1,275	863	3,616
325	Structural clay products....	5	4	156	562	132	288	404	739	962	57	166	736
3251	Brick and hollow tile.....	5	4	156	562	132	288	404	739	962	57	166	738
327	Concrete and plaster products	39	10	637	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3271	Concrete products.....	35	7	533	2,112	420	809	1,394	3,035	6,536	562	517	2,138
33	Primary metal industries...	14	9	4,393	20,211	3,780	7,944	16,906	36,266	( <sup>2</sup> )	2,904	3,420	24,991
34	Fabricated metal products..	44	8	1,150	4,209	973	2,057	3,565	5,514	( <sup>2</sup> )	348	490	3,679
344	Structural metal products....	31	8	1,091	4,023	923	1,956	3,409	5,145	( <sup>2</sup> )	279	476	3,624
3441	Structural and ornamental work.	10	2	586	2,093	479	1,135	1,792	2,561	5,670	141	(D)	(D)
3444	Sheet-metal work.....	16	3	242	931	203	343	732	1,462	3,035	65	(D)	(D)
35	Machinery, except electri- cal.....	52	14	1,328	4,714	1,093	2,190	3,688	7,600	( <sup>2</sup> )	622	359	(D)
354	Metalworking machinery.....	11	1	86	389	76	168	332	599	( <sup>2</sup> )	87	(D)	(D)
356	General industrial machinery.	5	1	73	198	55	95	136	639	( <sup>2</sup> )	78	...	...
359	Miscellaneous machinery parts	24	6	285	1,024	245	493	838	1,915	( <sup>2</sup> )	175	(D)	(D)
36	Electrical machinery.....	3	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...	(D)	(D)
37	Transportation equipment...	15	5	5,881	30,101	4,951	10,647	25,457	40,751	( <sup>2</sup> )	840	166	753
372	Aircraft and parts.....	10	5	5,861	30,000	4,934	10,612	24,393	40,579	( <sup>2</sup> )	831	(D)	(D)
38	Instruments and related products.....	7	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
39	Miscellaneous manufactures <sup>4</sup>	44	4	336	1,005	285	547	722	1,827	( <sup>2</sup> )	214	112	576
398	Miscellaneous manufactures <sup>4</sup> ..	22	2	147	571	112	223	359	946	( <sup>2</sup> )	42	75	(D)
399													

See footnotes next page.



## Footnotes to Table 4, Arizona:

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industries (4-digit) and industry groups (3-digit) are not shown. Industries and industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "all industries" line.

<sup>2</sup>The total value of shipments figures for industry groups and a few individual industries have not been published due to the extensive and unmeasurable duplication arising from shipments from one establishment to another in the same industry classification. (See Introduction.)

<sup>3</sup>Comparable data are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude establishments in S.I.C. Industry 2411, Logging Camps and Contractors, which are included in the scope of the 1954 Census; the 1947 Census also exclude plants processing and distributing fluid milk which in 1954 were classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	All industries except subgroups 202 and 2411, total.....	24,609	181,804	13,955	82,250
20	Food and kindred products except subgroup 202, Dairy products.....	3,198	28,304	3,200	17,464
24	Lumber and wood products except Industry 2411, Logging camps and contractors.....	2,491	14,090	2,530	12,620

<sup>4</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)

Table 5.--GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUPS: 1954 AND 1947  
(This State contained no standard metropolitan area with 40,000 or more manufacturing employees in 1954 or 1947)

Table 6.--GENERAL STATISTICS FOR PRINCIPAL INDUSTRIAL COUNTIES (THOSE WITH 20,000 OR MORE MANUFACTURING EMPLOYEES),  
BY MAJOR INDUSTRY GROUPS: 1954 AND 1947  
(This State contained no county with 20,000 or more manufacturing employees in 1954 or 1947)

## MANUFACTURES—AREA STATISTICS

Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954

20 Food and kindred products	26 Pulp, paper and products	32 Stone, clay, and glass products	38 Instruments and related products
21 Tobacco manufactures	27 Printing and publishing	33 Primary metal industries	39 Miscellaneous manufactures (Includes Group 19 Ordnance and accessories)
22 Textile mill products	28 Chemicals and products	34 Fabricated metal products	
23 Apparel and related products	29 Petroleum and coal products	35 Machinery, except electrical	
24 Lumber and wood products	30 Rubber products	36 Electrical machinery	
25 Furniture and fixtures	31 Leather and leather goods	37 Transportation equipment	

(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Arizona, total.....	817	203	...	...	46	89	50	2	134	36	4	1	9	64	14	44	52	3	15	7	44
1 to 4 employees.....	375	79	...	...	21	30	28	...	69	14	2	1	6	36	1	19	24	2	6	6	31
5 to 9 employees.....	128	33	...	...	7	8	12	...	24	1	...	...	1	8	4	13	8	1	3	1	4
10 to 19 employees.....	139	41	...	...	7	24	7	1	25	10	2	...	1	5	...	4	6	...	1	...	5
20 to 49 employees.....	100	24	...	...	7	18	3	1	13	4	...	...	1	10	...	5	10	...	1	...	3
50 to 99 employees.....	35	17	...	...	3	4	...	...	1	4	...	...	...	3	...	...	1	...	1	...	1
100 to 249 employees.....	23	8	...	...	1	3	...	...	...	2	...	...	...	2	4	2	1	...	...	...	...
250 to 499 employees.....	10	1	...	...	...	1	...	...	1	1	...	...	...	...	3	1	2	...	...	...	...
500 to 999 employees.....	3	...	...	...	...	1	...	...	1	...	...	...	...	...	1	...	...	...	...	...	...
1,000 to 2,499 employees.....	4	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	3	...	...
Apache:																					
1 to 19 employees.....	9	...	...	...	...	7	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1
20 to 99 employees.....	4	...	...	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Cochise:																					
1 to 19 employees.....	20	7	...	...	...	...	1	...	7	...	...	...	1	3	...	...	...	...	...	...	1
20 to 99 employees.....	4	1	...	...	1	...	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	...	...	...	...	1	...	...	...	...	...	1	...	...	...	...	...	...
Coconino:																					
1 to 19 employees.....	17	2	...	...	...	9	...	...	1	...	...	...	...	3	...	1	...	...	...	...	1
20 to 99 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Gila:																					
1 to 19 employees.....	15	7	...	...	...	2	...	...	4	...	...	...	...	...	...	1	...	...	...	...	1
20 to 99 employees.....	3	...	...	...	...	1	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	3	...	...	...	...	...	...	...	...	...	...	...	...	...	3	...	...	...	...	...	...
Graham:																					
1 to 19 employees.....	8	3	...	...	1	...	1	...	1	...	...	...	...	2	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
Greenlee:																					
1 to 19 employees.....	4	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...
Maricopa:																					
1 to 19 employees.....	356	70	...	...	23	23	31	1	66	15	2	...	6	27	3	23	29	2	8	3	24
20 to 99 employees.....	82	32	...	...	4	5	3	...	7	6	...	...	...	6	...	4	11	...	1	...	3
100 employees and over.....	23	7	...	...	1	1	...	...	1	2	...	...	...	1	2	3	3	...	2	...	...
Mohave:																					
1 to 19 employees.....	7	3	...	...	...	...	...	...	2	1	...	...	...	...	...	...	1	...	...	...	...
Navajo:																					
1 to 19 employees.....	21	7	...	...	...	12	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	10	...	...	...	...	10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Pima:																					
1 to 19 employees.....	127	27	...	...	11	8	9	...	22	6	2	1	1	8	2	9	4	1	2	4	10
20 to 99 employees.....	17	6	...	...	2	...	...	1	1	...	...	...	1	4	...	1	...	...	1	...	...
100 employees and over.....	6	2	...	...	...	...	...	...	1	...	...	...	...	1	1	...	...	...	1	...	...
Pinal:																					
1 to 19 employees.....	19	10	...	...	...	...	...	...	5	1	...	...	...	1	...	...	2	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...
Santa Cruz:																					
1 to 19 employees.....	4	1	...	...	...	...	...	...	2	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Yavapai:																					
1 to 19 employees.....	16	6	...	...	...	1	1	...	3	...	...	...	...	2	...	...	2	...	...	...	1
20 to 99 employees.....	6	...	...	...	2	1	...	...	1	...	...	...	...	1	...	...	...	...	...	...	1
Yuma:																					
1 to 19 employees.....	19	6	...	...	...	4	...	3	2	...	...	...	...	1	...	2	...	...	...	...	1
20 to 99 employees.....	5	2	...	...	...	1	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...

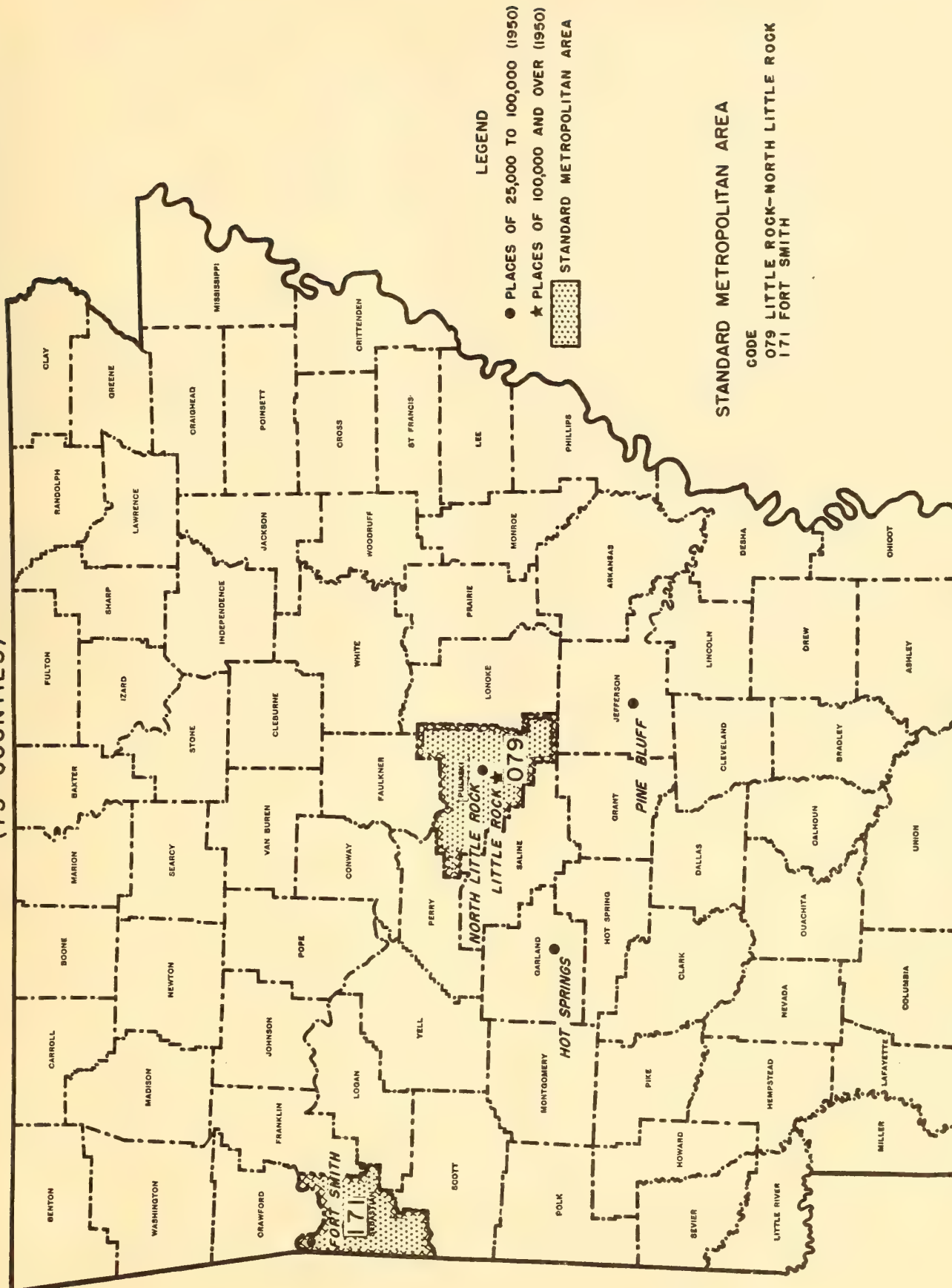








# ARKANSAS (75 COUNTIES)



## MANUFACTURES—AREA STATISTICS

Table 1.—MANUFACTURING EMPLOYMENT AT OPERATING ESTABLISHMENTS AND CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARIES FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS

(This table includes data for all manufacturing employees including those located in central administrative offices and auxiliaries. Tables 2-7 in this report include data for operating establishments only. For explanation of column captions see Introduction)

State, standard metropolitan area, and year <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	(Number)	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
Arkansas:						
1954.....	79,196	222,293	78,391	218,473	805	3,820
1953 <sup>2</sup> .....	80,525	219,463	79,575	215,643	950	3,820
1952 <sup>2</sup> .....	80,331	208,802	79,702	206,654	<sup>3</sup> 629	<sup>3</sup> 2,148
1951 <sup>2</sup> .....	75,987	181,739	75,358	179,591	629	2,148
1950 <sup>2</sup> .....	72,926	157,190	72,090	154,558	836	2,632
1949 <sup>2</sup> .....	62,846	125,250	62,252	123,306	594	1,944
1954						
Standard Metropolitan Areas:						
Fort Smith <sup>4</sup> .....	6,376	19,472	6,376	19,472	...	...
Little Rock-North Little Rock <sup>5</sup> .....	11,784	34,538	11,626	33,889	158	649

<sup>1</sup>Employment data for administrative offices and auxiliaries on a State basis are not available for the years prior to 1949. Similar data for standard metropolitan areas are available only for 1954.

<sup>2</sup>The employment figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period. The employment figures for administrative and auxiliary units were compiled chiefly from Bureau of Old-Age and Survivors Insurance records and are not strictly comparable with the figures for these units that were collected by the Bureau of the Census for the year 1954.

<sup>3</sup>The 1951 data are shown for 1952 since auxiliary and administrative unit data were not collected in 1952.

<sup>4</sup>The Fort Smith Standard Metropolitan Area consists of Sebastian County, Arkansas.

<sup>5</sup>The Little Rock-North Little Rock Standard Metropolitan Area consists of Pulaski County, Arkansas.



Table 2.—GENERAL STATISTICS FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Year	Establishments, number	All employees		Production workers		Value added by manufacture (\$1,000)
		Number	Payroll (\$1,000)	Number	Wages (\$1,000)	
ARKANSAS						
1954 <sup>1</sup> .....	2,428	78,391	218,473	67,481	171,109	457,047
1953 <sup>2</sup> .....	{ (NA) }	79,575	215,643	68,126	171,376	427,209
1952 <sup>2</sup> .....		79,702	206,654	69,976	166,673	396,134
1951 <sup>2</sup> .....		75,358	179,591	66,757	143,700	378,979
1950 <sup>2</sup> .....		72,090	154,558	62,622	124,006	320,723
1949 <sup>2</sup> .....		62,252	123,306	54,052	95,447	241,901
1947.....	1,926	65,802	125,200	58,725	102,838	267,516
1939.....	1,115	41,183	33,352	35,672	24,205	66,444
1937.....	1,048	40,531	30,829	37,280	24,734	65,587
1935.....	1,066	31,991	22,509	29,076	17,328	45,233
1933.....	819	(NA)	(NA)	25,955	14,039	36,842
1931.....	1,017	(NA)	(NA)	25,161	19,023	44,452
1929.....	1,731	48,747	49,446	44,205	39,503	94,255
1927.....	1,146	{ (NA) }	{ (NA) }	40,032	35,288	78,936
1925.....	1,257			43,977	37,538	84,543
1923.....	1,231			44,545	37,770	81,832
1921.....	1,289			33,431	27,804	54,353
1919.....	3,044	54,234	56,207	49,693	46,909	96,953
1914.....	2,593	45,495	24,898	41,956	20,738	38,998
1909.....	2,925	48,275	22,574	44,982	19,113	39,981
1904.....	1,907	35,417	16,854	33,089	14,544	32,065
1899.....	1,746	33,074	11,447	31,525	10,184	21,600
STANDARD METROPOLITAN AREAS (None with 40,000 or more manufacturing employees in this State)						

NA Not available.

<sup>1</sup>The 1954 figures include data for establishments engaged in the processing and distribution of fluid milk, Industry Group 202, Dairy Products. These establishments were not included in the figures for the Annual Survey years 1949-1953 or earlier Census years. In addition, the 1954 Census and Annual Survey years include data for Logging camps and contractors, Industry 2411, which were not included within the scope of the 1947 Census. See footnotes to Table 4 for comparable 1954 and 1947 totals. There were also a number of changes in the definition of manufacturing industries during earlier Census years that affect the comparability of the historical series. Among the more important of these were: figures for 1935 and later years exclude data for "Railroad repair shops" and "Manufactured gas" which were included in 1899-1933 figures; the minimum size of establishment included for 1954 and 1947 was one employee, for 1939-1921 manufacturing establishments reporting value of shipments of \$5,000 or more were within scope whereas for 1919 and earlier years the cutoff was \$500. (This change in procedure has not appreciably affected the comparability of the historical data except for the figures on number of establishments.)

<sup>2</sup>The employment and payroll figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period.

## MANUFACTURES--AREA STATISTICS

Table 3.--GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
Arkansas, total.....	1,909,511	2,428	78,391	218,473	67,481	134,479	171,109	457,047	42,715	( <sup>1</sup> )	( <sup>1</sup> )
STANDARD METROPOLITAN AREAS											
Fort Smith.....	64,202	136	6,376	19,472	5,201	10,244	14,345	40,887	2,337	5,418	21,737
Little Rock.....	196,685	262	11,626	33,889	9,196	18,132	23,182	67,556	3,997	8,809	39,190
COUNTIES											
Arkansas.....	23,665	29	946	2,833	711	1,602	1,788	9,780	755	816	4,619
Ashley.....	25,660	46	2,603	8,808	2,368	4,755	7,446	19,042	3,382	2,014	12,797
Baxter.....	11,683	14	87	159	80	135	122	341	9	63	234
Benton.....	38,076	59	1,928	4,341	1,707	3,171	3,454	9,016	615	1,018	2,592
Boone.....	16,260	35	876	1,935	787	1,475	1,643	3,002	235	554	1,081
Bradley.....	15,987	28	1,843	5,238	1,702	3,962	4,493	7,802	549	1,922	(D)
Calhoun.....	7,132	16	1,244	(D)	1,005	(D)	(D)	(D)	(D)	213	(D)
Carroll.....	13,244	17	435	(D)	412	(D)	(D)	(D)	(D)	206	601
Chicot.....	22,306	15	256	535	234	478	408	825	20	430	926
Clark.....	22,998	42	1,727	5,436	1,551	3,355	4,608	8,540	195	1,130	2,966
Clay.....	26,674	27	440	843	417	679	756	1,503	24	130	387
Cleburne.....	11,487	22	145	223	135	208	174	456	36	54	(D)
Cleveland.....	8,956	14	221	409	215	425	389	679	41	323	633
Columbia.....	28,770	64	1,479	3,221	1,340	2,461	2,628	4,699	369	1,272	3,412
Conway.....	18,137	20	953	2,061	885	1,626	1,751	2,804	48	307	1,498
Craighead.....	50,613	49	1,382	3,670	1,107	2,193	2,620	8,424	1,059	1,119	5,423
Crawford.....	22,727	19	714	1,172	657	1,057	962	1,697	82	467	1,160
Crittenden.....	47,184	14	459	1,315	392	1,089	1,018	2,753	103	497	1,972
Cross.....	24,757	13	182	352	155	296	268	651	78	78	219
Dallas.....	12,416	39	945	2,280	881	1,959	2,010	3,078	218	890	3,166
Desha.....	25,155	17	216	488	178	376	368	905	63	239	827
Drew.....	17,959	28	834	1,657	758	1,488	1,405	3,372	193	564	1,245
Faulkner.....	25,289	22	832	2,062	776	1,450	1,847	4,325	262	421	945
Franklin.....	12,358	13	248	439	225	394	391	763	71	190	500
Fulton.....	9,187	6	121	(D)	116	(D)	(D)	(D)	(D)	194	(D)
Garland.....	47,102	76	1,115	2,813	868	1,911	2,091	4,772	437	1,330	3,670
Grant.....	9,024	31	597	1,335	573	1,217	1,265	2,313	155	606	1,403
Greene.....	29,149	29	1,108	2,059	997	1,675	1,661	3,047	131	595	1,318
Hempstead.....	25,080	29	1,139	2,509	1,039	2,107	2,124	4,381	106	964	2,861
Hot Spring.....	22,181	47	2,981	10,486	2,643	5,479	8,793	27,517	894	1,903	10,186
Howard.....	13,342	23	808	2,395	722	1,711	2,051	5,633	543	877	3,406
Independence.....	23,488	43	927	2,032	819	1,466	1,674	4,822	240	573	1,370
Izard.....	9,953	19	93	156	88	160	146	256	15	181	422
Jackson.....	25,912	30	1,040	2,641	930	1,958	2,247	5,501	1,404	526	2,600
Jefferson.....	76,075	75	3,026	8,424	2,493	5,029	5,938	14,618	1,060	2,488	8,316
Johnson.....	16,138	33	476	1,021	427	874	877	1,608	57	438	1,446
Lafayette.....	13,203	13	287	484	272	520	448	594	44	531	1,466
Lawrence.....	21,303	22	299	583	278	531	504	1,198	240	1,796	(D)
Lee.....	24,322	13	63	89	49	86	63	145	14	31	69
Lincoln.....	17,079	10	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	326	730
Little River.....	11,690	23	114	141	110	200	133	309	19	337	(D)
Logan.....	20,260	22	113	220	95	181	191	315	20	226	476
Lonoke.....	27,278	15	134	283	123	235	228	1,103	47	134	(D)
Madison.....	11,734	13	51	55	49	61	53	90	6	198	(D)
Marion.....	8,609	6	27	49	24	40	39	71	60	28	(D)
Miller.....	32,614	31	364	944	295	614	640	1,828	86	570	1,911
Mississippi.....	82,375	38	1,068	2,885	841	1,684	1,970	7,493	326	1,071	6,111
Monroe.....	19,540	21	407	810	361	751	685	1,313	73	257	719
Montgomery.....	6,680	13	46	65	42	50	54	150	8	125	329
Nevada.....	14,781	30	243	469	214	465	397	760	163	713	2,170
Newton.....	8,685	9	77	87	76	121	86	151	18	133	220
Ouachita.....	33,051	81	4,295	15,651	3,700	7,622	12,705	37,101	2,239	3,694	18,792
Perry.....	5,978	13	43	60	38	49	51	60	9	182	330
Phillips.....	46,254	29	2,147	5,282	1,930	3,927	4,385	7,534	172	2,839	10,007
Pike.....	10,032	31	455	883	431	901	819	1,421	74	529	1,674
Poinsett.....	39,311	15	1,013	2,518	894	1,854	2,078	3,563	439	877	1,747
Polk.....	14,182	33	688	1,085	660	1,142	995	1,518	49	553	(D)
Pope.....	23,291	47	1,056	2,195	923	1,658	1,798	4,789	111	551	1,616
Prairie.....	13,768	20	147	223	140	231	208	333	23	135	239
Pulaski.....	196,685	262	11,626	33,889	9,196	18,132	23,182	67,556	3,997	8,809	39,190



Table 3.--GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture	Capital expendi- tures, new	All employees, number	Value added by manu- facture
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
Randolph.....	15,982	22	568	1,053	551	1,051	1,003	2,296	26	504	(D)
St. Francis.....	36,841	23	474	999	394	782	725	1,880	106	444	2,004
Saline.....	23,816	37	3,112	11,658	2,611	5,218	9,070	27,665	9,629	1,839	7,107
Scott.....	10,057	16	150	265	137	235	237	453	24	482	1,945
Searcy.....	10,424	12	76	123	70	111	109	175	19	146	288
Sebastian.....	64,202	136	6,376	19,472	5,201	10,244	14,345	40,887	2,337	5,418	21,737
Sevier.....	12,293	14	293	745	274	587	682	1,558	219	255	700
Sharp.....	8,999	8	25	30	23	39	26	48	1	15	84
Stone.....	7,662	12	66	112	61	93	94	198	8	48	78
Union.....	49,686	78	3,955	14,943	3,288	6,575	11,687	46,257	7,111	3,812	27,468
Van Buren.....	9,687	14	121	187	115	208	166	448	22	109	255
Washington.....	49,979	63	2,091	4,519	1,846	3,450	3,664	9,102	659	1,509	5,743
White.....	38,040	50	1,150	2,634	1,058	2,085	2,216	5,614	169	564	1,555
Woodruff.....	18,957	9	239	469	228	400	403	651	6	125	(D)
Yell.....	14,057	21	444	837	425	799	742	1,992	131	295	1,121
CITIES WITH 10,000 INHAB- ITANTS OR MORE											
Blytheville.....	16,234	22	743	1,769	603	1,085	1,287	3,829	183	521	1,696
Camden.....	11,372	33	748	2,175	549	1,143	1,271	4,559	662	(NA)	(NA)
El Dorado.....	23,076	28	1,383	6,199	997	2,015	4,344	17,543	3,516	755	(D)
Fayetteville.....	17,071	32	1,406	3,054	1,249	2,335	2,565	5,015	486	(NA)	(NA)
Fort Smith.....	47,942	123	6,287	19,214	5,156	10,136	14,234	40,369	2,280	4,791	19,523
Helena.....	11,236	11	673	1,882	568	1,196	1,412	2,526	63	(NA)	(NA)
Hot Springs.....	29,307	56	605	1,504	431	896	977	2,807	119	488	1,716
Jonesboro.....	16,310	38	1,293	3,542	1,026	2,053	2,513	8,237	1,044	1,057	5,013
Little Rock.....	102,213	170	8,938	26,219	7,111	14,040	17,900	49,386	2,311	6,871	29,809
North Little Rock.....	44,097	58	1,583	4,461	1,231	2,414	3,014	8,864	1,352	1,457	6,672
Pine Bluff.....	37,162	49	2,495	6,958	2,046	4,163	4,833	11,519	844	1,847	6,122
Texarkana <sup>2</sup> .....	15,875	19	287	836	223	502	542	1,649	72	445	1,624
West Memphis.....	...	9	358	1,101	307	902	852	2,368	92	(NA)	(NA)

D Withheld to avoid disclosing figures for individual companies.

NA Detail figures are not available, but are included in totals for the area.

<sup>1</sup>The 1947 data are not strictly comparable with the figures shown for 1954 due to differences in coverage of loggers and fluid milk distributors. See discussion in Introduction and footnotes to Table 4.

<sup>2</sup>General statistics for Texarkana city in Bowie County, Texas, are shown in Table 3 for the State of Texas.

## MANUFACTURES—AREA STATISTICS

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947

(For explanation of column captions see Introduction)

Ind. code	Industry	1954										1947	
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
	All industries, total <sup>1</sup> ...	2,428	568	78,391	218,473	67,481	134,479	171,109	457,047	( <sup>2</sup> )	42,715	( <sup>3</sup> )	( <sup>3</sup> )
20	Food and kindred products..	505	154	12,788	32,964	9,206	18,442	19,386	75,312	( <sup>2</sup> )	5,646	( <sup>3</sup> )	( <sup>3</sup> )
201	Meat products.....	74	34	3,268	7,152	2,907	5,723	5,707	14,125	( <sup>2</sup> )	1,084	951	4,237
2011	Meat packing, plants.....	34	13	737	2,062	495	1,171	1,185	4,764	( <sup>2</sup> )	609	466	3,091
2015	Poultry dressing, plants.....	36	20	2,500	4,987	2,386	4,505	4,457	9,200	48,218	452	375	581
202	Dairy products.....	88	25	1,657	4,968	962	2,072	2,545	13,463	( <sup>2</sup> )	1,365	( <sup>3</sup> )	( <sup>3</sup> )
2024	Ice cream and ices.....	18	4	242	682	139	314	353	1,655	3,752	259	( <sup>3</sup> )	( <sup>3</sup> )
2027	Fluid milk and other products..	42	14	911	2,765	443	986	1,113	7,647	22,264	723	( <sup>3</sup> )	( <sup>3</sup> )
203	Canned and frozen foods.....	33	18	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2033	Canned fruits and vegetables...	24	14	1,549	2,899	1,377	2,463	2,242	5,550	18,678	273	2,407	(D)
2037	Frozen fruits and vegetables...	5	2	191	292	181	305	256	1,026	1,868	52	(D)	(D)
204	Grain mill products.....	52	26	1,576	4,753	1,145	2,678	2,817	13,053	( <sup>2</sup> )	1,449	1,358	8,942
2042	Prepared animal feeds.....	34	14	858	2,534	607	1,391	1,504	5,320	36,235	471	594	3,244
205	Bakery products.....	61	21	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2051	Bread and related products....	59	20	1,614	5,327	889	1,741	2,338	10,493	19,378	560	1,297	(D)
207	Candy and related products...	7	2	106	268	72	144	142	278	738	8	282	672
2071	Confectionery products.....	7	2	106	268	72	144	142	278	738	8	282	672
208	Beverages.....	89	17	1,438	3,933	643	1,296	1,265	8,347	( <sup>2</sup> )	487	1,136	5,786
2081	Bottled soft drinks.....	83	17	1,419	3,903	627	1,271	1,241	8,207	15,010	483	1,102	(D)
209	Miscellaneous foods.....	101	11	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2097	Manufactured ice.....	79	3	486	1,104	324	774	697	2,233	2,881	175	979	4,076
2099	Food preparations, n.e.c.....	17	3	283	436	258	334	356	1,110	3,656	39	(D)	(D)
22	Textile mill products.....	15	14	2,258	5,087	2,100	3,962	4,361	7,100	( <sup>2</sup> )	449	(D)	(D)
23	Apparel and related products.....	46	27	5,250	9,978	5,032	8,957	8,817	14,381	( <sup>2</sup> )	230	2,482	5,623
232	Men's and boys' furnishings..	19	18	3,661	6,890	3,506	6,003	6,010	10,037	( <sup>2</sup> )	155	1,991	4,315
2321	Men's dress shirts & nightwear.	6	6	1,081	1,801	1,057	1,864	1,700	2,707	6,344	89	(D)	(D)
2329	Men's & boys' clothing, n.e.c..	8	8	1,885	3,817	1,774	2,923	3,109	5,199	9,436	48	1,221	2,913
233	Women's and misses' outerwear	6	5	1,163	2,342	1,122	2,183	2,142	3,505	( <sup>2</sup> )	(D)	(D)	(D)
24	Lumber and wood products...	1,189	187	21,768	48,056	20,330	41,328	42,267	71,468	( <sup>2</sup> )	7,376	( <sup>3</sup> )	( <sup>3</sup> )
242	Lumber and basic products....	767	134	15,203	34,722	14,256	29,750	30,541	50,641	( <sup>2</sup> )	6,097	22,871	67,757
2421	Sawmills and planing mills....	729	122	14,482	33,385	13,572	28,546	29,361	48,714	108,527	6,056	20,561	62,782
2422	Veneer mills.....	5	3	180	296	167	247	228	488	782	10	289	(D)
243	Millwork and related products	30	6	639	1,491	584	1,112	1,236	2,263	( <sup>2</sup> )	80	634	1,663
2432	Plywood plants.....	4	4	443	1,004	424	801	865	1,433	2,439	67	(D)	(D)
244	Wooden containers.....	17	12	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2444	Wooden boxes.....	11	7	1,697	3,909	1,552	3,102	3,382	4,812	10,905	139	1,521	(D)
249	Miscellaneous wood products..	47	19	1,491	3,203	1,389	2,796	2,831	5,914	( <sup>2</sup> )	324	(D)	(D)
2491	Wood preserving.....	6	4	395	965	360	699	841	5,048	5,048	251	242	(D)
2499	Wood products, n.e.c.....	41	15	1,096	2,237	1,029	2,097	1,989	3,596	6,714	72	2,779	(D)
25	Furniture and fixtures.....	80	29	4,856	12,435	4,272	8,330	9,590	19,014	( <sup>2</sup> )	1,048	3,178	11,439
251	Household furniture.....	54	24	4,474	11,274	3,984	7,737	8,815	17,304	( <sup>2</sup> )	741	3,012	10,706
2511	Wood furniture, not upholstered.....	28	14	3,386	8,309	3,023	5,883	6,599	12,116	25,829	592	2,335	8,611
2512	Upholstered household furniture	12	8	890	2,456	785	1,465	1,816	4,209	9,923	97	507	1,874
253	Public and professional furniture.....	7	4	228	663	194	403	513	819	2,035	293	(D)	(D)
2531	Public-building furniture.....	7	4	228	663	194	403	513	819	2,035	293	(D)	(D)
26	Pulp, paper and products...	19	15	3,965	15,909	3,548	7,454	13,481	48,705	( <sup>2</sup> )	3,805	3,159	21,887
2661	Paper bags.....	5	4	1,169	3,999	1,121	2,316	3,742	9,049	28,698	481	(D)	(D)
267	Paperboard containers.....	4	4	153	469	132	263	317	766	1,875	55	(D)	(D)
2671	Paperboard boxes.....	4	4	153	469	132	263	317	766	1,875	55	148	(D)
27	Printing and publishing....	200	21	2,756	9,546	1,728	3,360	5,805	15,759	( <sup>2</sup> )	594	2,226	11,342
2711	Newspapers.....	118	12	1,800	6,034	1,029	1,992	3,370	10,268	14,435	237	1,375	7,564
2751	Commercial printing.....	57	7	778	2,838	589	1,168	2,038	4,411	6,784	318	755	3,316
28	Chemicals and products.....	56	31	5,191	20,528	4,243	8,935	15,795	62,888	( <sup>2</sup> )	14,272	4,145	29,194
281	Inorganic chemicals.....	4	4	3,110	13,994	2,572	5,166	11,166	44,437	( <sup>2</sup> )	11,133	(D)	(D)
287	Fertilizers.....	11	6	488	1,346	357	734	829	4,563	( <sup>2</sup> )	745	365	2,542
288	Vegetable and animal oils....	22	17	1,105	3,466	908	2,166	2,430	8,681	( <sup>2</sup> )	2,031	1,670	13,016
2881	Cottonseed oil mills.....	15	14	1,008	3,193	836	2,013	2,267	7,951	40,389	1,987	1,568	(D)
29	Petroleum and coal products	16	8	1,430	6,740	1,128	2,259	5,025	19,749	( <sup>2</sup> )	3,395	1,193	17,064
2911	Petroleum refining.....	6	6	1,238	6,158	968	1,929	4,630	18,243	98,615	3,361	1,118	15,007
30	Rubber products.....	5	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
31	Leather and leather goods..	12	11	3,626	7,897	3,463	6,086	7,277	16,301	( <sup>2</sup> )	122	1,343	3,121
32	Stone, clay and glass products.....	75	19	2,694	8,929	2,380	4,866	7,536	18,678	( <sup>2</sup> )	1,363	2,492	10,237

See footnotes at end of table.



Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manufacture	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
325	Structural clay products.....	9	7	956	2,706	875	1,911	2,251	4,141	( <sup>2</sup> )	272	647	1,980
327	Concrete and plaster products	44	4	490	1,305	427	828	1,009	2,511	( <sup>2</sup> )	270	467	1,334
33	Primary metal industries...	18	8	2,617	11,600	2,219	4,679	9,357	29,597	( <sup>2</sup> )	839	2,917	18,885
3361	Nonferrous foundries.....	9	3	444	1,685	374	715	1,268	3,022	4,749	(D)	61	(D)
34	Fabricated metal products..	61	14	1,885	5,684	1,633	3,320	4,458	9,981	( <sup>2</sup> )	979	758	3,517
342	Cutlery, tools, and hardware.	4	3	159	469	142	314	395	462	( <sup>2</sup> )	14	...	...
344	Structural metal products....	41	7	708	2,443	553	1,059	1,608	4,090	( <sup>2</sup> )	282	352	1,691
3441	Structural and ornamental work.	15	3	419	1,598	317	611	1,038	2,501	6,540	202	261	1,266
3443	Boiler shop products.....	6	2	114	369	95	202	242	658	1,508	28	(D)	(D)
348	Fabricated wire products.....	4	1	218	642	198	412	565	846	1,965	(D)	(D)	(D)
3489	Wirework, n.e.c.....	4	1	218	642	198	412	565	846	1,965	(D)	(D)	(D)
35	Machinery, except electrical.....	41	5	600	1,871	476	1,015	1,395	6,378	( <sup>2</sup> )	245	443	2,207
36	Electrical machinery.....	6	4	1,652	4,734	1,468	2,893	3,904	15,623	( <sup>2</sup> )	1,058	...	...
37	Transportation equipment...	16	5	473	1,384	416	849	1,150	2,284	( <sup>2</sup> )	261	321	1,111
371	Motor vehicles and equipment.	10	2	221	709	201	413	598	1,046	( <sup>2</sup> )	35	185	521
373	Ships and boats.....	6	3	252	675	214	435	552	1,238	( <sup>2</sup> )	225	(D)	(D)
38	Instruments and related products.....	3	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1,008	(D)
39	Miscellaneous manufactures <sup>4</sup>	65	15	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	845	2,440
394	Toys and sporting goods.....	15	4	621	1,521	522	1,075	1,080	2,627	( <sup>2</sup> )	71	(D)	(D)
398	Miscellaneous manufactures...	39	11	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3988	Morticians' goods.....	6	5	241	619	196	398	359	844	1,969	17	214	643

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industries (4-digit) and industry groups (3-digit) are not shown. Industries and industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "all industries" line.

<sup>2</sup>The total value of shipments figures for industry groups and a few individual industries have not been published due to the extensive and unmeasurable duplication arising from shipments from one establishment to another in the same industry classification. (See Introduction.)

<sup>3</sup>Comparable data are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude establishments in S.I.C. Industry 2411, Logging Camps and Contractors, which are included in the scope of the 1954 Census; the 1947 Census also excludes plants processing and distributing fluid milk which in 1954 were classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	All industries except subgroups 202 and 2411, total.....	74,966	438,116	65,071	263,782
20	Food and kindred products except subgroup 202, Dairy products.....	11,131	61,849	8,988	37,286
24	Lumber and wood products except Industry 2411, Logging camps and contractors.....	20,000	66,000	28,749	83,775

<sup>4</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)

Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUPS: 1954 AND 1947  
(This State contained no standard metropolitan area with 40,000 or more manufacturing employees in 1954 or 1947)

Table 6.—GENERAL STATISTICS FOR PRINCIPAL INDUSTRIAL COUNTIES (THOSE WITH 20,000 OR MORE MANUFACTURING EMPLOYEES), BY MAJOR INDUSTRY GROUPS: 1954 AND 1947

(This State contained no county with 20,000 or more manufacturing employees in 1954 and 1947)





(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Dallas:																					
1 to 19 employees.....	31	2	...	...	...	27	...	...	1	...	...	...	...	...	...	1	...	...	...	...	...
20 to 99 employees.....	7	...	...	...	...	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Desha:																					
1 to 19 employees.....	15	4	...	...	...	8	...	...	2	...	...	...	...	...	...	1	...	...	...	...	...
20 to 99 employees.....	2	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Drew:																					
1 to 19 employees.....	21	1	...	...	...	19	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	4	...	...	...	...	2	...	...	...	1	...	...	...	...	...	...	...	...	1	...	...
100 employees and over.....	3	...	...	2	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Faulkner:																					
1 to 19 employees.....	17	5	...	...	...	5	...	...	2	...	...	...	...	2	...	1	1	...	...	...	1
20 to 99 employees.....	3	1	...	...	...	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	1	...	...
Franklin:																					
1 to 19 employees.....	10	6	...	...	...	3	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Fulton:																					
1 to 19 employees.....	5	...	...	...	...	3	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1
100 employees and over.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Garland:																					
1 to 19 employees.....	68	23	...	...	4	19	4	...	7	...	...	...	...	4	2	...	2	...	...	...	3
20 to 99 employees.....	7	3	...	...	...	2	...	...	1	...	...	1	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Grant:																					
1 to 19 employees.....	27	1	...	...	...	25	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Greene:																					
1 to 19 employees.....	23	4	...	...	...	10	1	...	3	...	...	...	...	...	...	1	...	...	3	...	1
20 to 99 employees.....	4	2	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...
Hempstead:																					
1 to 19 employees.....	19	2	...	...	...	13	...	...	1	1	...	...	...	...	...	1	1	...	...	...	...
20 to 99 employees.....	5	2	...	...	...	2	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
100 employees and over.....	5	...	...	...	1	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hot Spring:																					
1 to 19 employees.....	32	1	...	...	1	24	...	...	2	...	1	...	...	...	...	2	1	...	...	...	...
20 to 99 employees.....	9	1	...	...	1	4	...	...	...	...	...	...	1	...	1	...	...	...	...	...	1
100 employees and over.....	6	...	...	1	...	1	...	...	...	...	...	...	...	2	2	...	...	...	...	...	...
Howard:																					
1 to 19 employees.....	17	3	...	...	...	12	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1
20 to 99 employees.....	4	...	...	...	...	2	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...
100 employees and over.....	2	...	...	...	...	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
Independence:																					
1 to 19 employees.....	38	9	...	...	1	21	...	...	3	...	...	...	1	...	...	...	...	...	...	...	3
20 to 99 employees.....	3	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...
Izard:																					
1 to 19 employees.....	18	...	...	...	...	17	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Jackson:																					
1 to 19 employees.....	25	8	...	...	...	10	...	...	4	...	...	...	1	...	...	...	...	...	...	...	2
20 to 99 employees.....	3	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1	...	...
100 employees and over.....	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...
Jefferson:																					
1 to 19 employees.....	48	11	...	...	...	22	4	...	3	1	...	...	...	2	2	2	...	...	1	...	...
20 to 99 employees.....	17	6	...	...	1	5	1	...	3	...	...	...	...	...	...	...	...	...	...	...	1
100 employees and over.....	10	...	...	1	...	3	...	1	1	...	...	...	...	1	...	...	1	...	...	...	1
Johnson:																					
1 to 19 employees.....	29	2	...	...	...	22	...	...	2	...	...	...	...	1	...	...	2	...	...	...	...
20 to 99 employees.....	2	...	...	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	2	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Lafayette:																					
1 to 19 employees.....	10	2	...	...	...	8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	2	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Lawrence:																					
1 to 19 employees.....	20	1	...	...	1	14	...	...	2	...	...	...	1	1	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Lee:																					
1 to 19 employees.....	13	2	...	...	...	9	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...
Lincoln:																					
1 to 19 employees.....	10	...	...	...	...	9	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Little River:																					
1 to 19 employees.....	22	1	...	...	...	20	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Logan:																					
1 to 19 employees.....	22	6	...	...	...	9	3	...	2	1	...	...	...	1	...	...	...	...	...	...	...
Lonoke:																					
1 to 19 employees.....	13	1	...	...	...	8	1	...	2	...	...	...	...	...	...	...	...	...	...	...	1
20 to 99 employees.....	2	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...





Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954—Continued  
(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establish- ments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Stone:																					
1 to 19 employees.....	12	...	...	...	...	12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Union:																					
1 to 19 employees.....	56	8	...	...	...	25	1	1	7	2	3	...	...	2	1	2	3	...	...	...	1
20 to 99 employees.....	15	2	...	...	...	9	...	...	1	1	1	...	...	...	...	...	...	...	...	...	1
100 employees and over .....	7	...	...	...	...	3	...	...	...	1	3	...	...	...	...	...	...	...	...	...	...
Van Buren:																					
1 to 19 employees.....	13	...	...	...	...	12	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Washington:																					
1 to 19 employees.....	46	24	...	...	1	8	...	...	6	3	...	...	...	3	...	1	...	...	...	...	...
20 to 99 employees.....	11	7	...	...	...	3	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	6	4	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
White:																					
1 to 19 employees.....	42	8	...	...	...	30	...	...	3	...	...	...	...	...	...	...	...	...	...	...	1
20 to 99 employees.....	5	2	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	3	...	...	...	...	1	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...
Woodruff:																					
1 to 19 employees.....	7	...	...	...	...	6	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Yell:																					
1 to 19 employees.....	16	3	...	...	...	11	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	4	1	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...





**LEGEND**

- PLACES OF 25,000 TO 100,000
- ★ PLACES OF 100,000 AND OVER
- STANDARD METROPOLITAN AREAS

**STANDARD METROPOLITAN AREAS**

CODE	STANDARD METROPOLITAN AREA
1	FRESNO
2	LOS ANGELES - LONG BEACH
3	SACRAMENTO
4	SAN BERNARDINO-RIVERSIDE-ONTARIO
5	SAN DIEGO
6	SAN FRANCISCO-OAKLAND
7	SAN JOSE
8	STOCKTON

The map shows the following counties: DEL NORTE, SISKIYOU, MODOC, HUMBOLDT, TRINITY, SHASTA, LASSEN, TEHAMA, PLUMAS, BUTTE, SIERRA, MENDOCINO, GLENN, YUBA, NEVADA, COLUSA, PLACER, SUTTER, YOLO, EL DORADO, ALPINE, SONOMA, NAPA, SOLANO, CALAVERAS, TUOLUMNE, MARIN, CONTRA COSTA, JOHNS VALLEY, MARIPOSA, MONO, SAN FRANCISCO, SAN MATEO, REDWOOD CITY, ALAMEDA, PALO ALTO, SAN JOSE, MERCED, MADERA, SAN BENITO, FRESNO, KINGS, TULARE, MONTEREY, INYO, EAST BAKERSFIELD, BAKERSFIELD, KERN, LOS ANGELES, GLENDALE, BURBANK, SANTA BARBARA, BEVERLY HILLS, VENTURA, SANTA MONICA, OXNARD, CULVER CITY, MANHATTAN BEACH, REDONDO BEACH, INGLEWOOD, TORRANCE, LONG BEACH, COMPTON, SAN DIEGO, NATIONAL CITY, CHULA VISTA, ARCADIA, MONTEBELLO, HUNTINGTON PARK, PASADENA, LYNWOOD, ALHAMBRA, ONTARIO, POMONA, WHITTIER, FULLERTON, SANTA ANA, SOUTH GATE, RIVERSIDE, SAN BERNARDINO, IMPERIAL.

## MANUFACTURES—AREA STATISTICS

Table 1.—MANUFACTURING EMPLOYMENT AT OPERATING ESTABLISHMENTS AND CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARIES FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS

(This table includes data for all manufacturing employees including those located in central administrative offices and auxiliaries. Tables 2-7 in this report include data for operating establishments only. For explanation of column captions see Introduction)

State, standard metropolitan areas, and year <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	(Number)	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
California:						
1954.....	1,052,785	4,802,353	1,027,784	4,643,717	25,001	158,636
1953 <sup>2</sup> .....	1,058,796	4,703,644	1,038,881	4,599,112	19,915	104,532
1952 <sup>2</sup> .....	944,569	3,986,644	924,027	3,890,564	<sup>3</sup> 20,542	<sup>3</sup> 96,080
1951 <sup>2</sup> .....	857,040	3,375,563	836,498	3,279,483	20,542	96,080
1950 <sup>2</sup> .....	755,089	2,678,654	738,318	2,609,006	16,771	69,648
1949 <sup>2</sup> .....	672,226	2,315,343	655,661	2,240,347	16,565	74,996
1954						
Standard metropolitan areas:						
Fresno <sup>4</sup> .....	12,786	50,923	12,747	50,734	39	189
Los Angeles-Long Beach <sup>5</sup> .....	647,084	2,983,411	639,802	2,936,808	7,282	46,603
Sacramento <sup>6</sup> .....	10,920	46,875	10,907	46,787	13	88
San Bernardino-Riverside-Ontario <sup>7</sup> .....	24,542	103,472	21,158	87,345	3,384	16,127
San Diego <sup>8</sup> .....	48,137	224,969	47,731	221,656	406	3,313
San Francisco-Oakland <sup>9</sup> .....	186,206	881,312	173,135	793,165	13,071	88,147
San Jose <sup>10</sup> .....	28,434	118,868	27,942	116,213	492	2,655
Stockton <sup>11</sup> .....	11,145	45,631	11,033	45,205	112	426

<sup>1</sup>Employment data for administrative offices and auxiliaries on a State basis are not available for the years prior to 1949. Similar data for standard metropolitan areas are available only for 1954.

<sup>2</sup>The employment figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period. The employment figures for administrative and auxiliary units were compiled chiefly from Old-Age and Survivors Insurance records and are not strictly comparable with the figures for these units that were collected by the Bureau of the Census for the year 1954.

<sup>3</sup>The 1951 data are shown for 1952 since auxiliary and administrative unit data were not collected in 1952.

<sup>4</sup>The Fresno Standard Metropolitan Area consists of Fresno County, California.

<sup>5</sup>The Los Angeles-Long Beach Standard Metropolitan Area consists of Los Angeles and Orange Counties, California.

<sup>6</sup>The Sacramento Standard Metropolitan Area consists of Sacramento County, California.

<sup>7</sup>The San Bernardino-Riverside-Ontario Standard Metropolitan Area consists of San Bernardino and Riverside Counties, California.

<sup>8</sup>The San Diego Standard Metropolitan Area consists of San Diego County, California.

<sup>9</sup>The San Francisco-Oakland Standard Metropolitan Area consists of Alameda, Contra Costa, Marin, San Francisco, San Mateo, and Solano Counties, California.

<sup>10</sup>The San Jose Standard Metropolitan Area consists of Santa Clara County, California.

<sup>11</sup>The Stockton Standard Metropolitan Area consists of San Joaquin County, California.



Table 2.—GENERAL STATISTICS FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Year	Establish- ments, number	All employees		Production workers		Value added by manufacture (\$1,000)	
		Number	Payroll (\$1,000)	Number	Wages (\$1,000)		
CALIFORNIA							
1954 <sup>1</sup> .....	24,509	1,027,784	4,643,717	771,796	3,143,793	8,597,453	
1953 <sup>2</sup> .....	}	1,038,881	4,599,112	797,996	3,203,432	8,153,142	
1952 <sup>2</sup> .....		924,027	3,890,564	709,006	2,720,381	6,964,795	
1951 <sup>2</sup> .....		(NA)	836,498	3,279,483	646,049	2,309,315	6,133,387
1950 <sup>2</sup> .....		738,318	2,609,006	568,659	1,825,896	5,120,976	
1949 <sup>2</sup> .....		655,661	2,240,347	507,312	1,555,453	4,168,034	
1947.....	17,648	663,872	2,064,532	530,283	1,519,255	3,994,981	
1939.....	11,558	357,098	533,744	271,290	358,734	1,122,545	
1937.....	10,861	358,083	503,735	302,189	389,132	1,091,597	
1935.....	10,345	284,096	358,120	239,101	265,645	808,130	
1933.....	8,429	(NA)	(NA)	191,861	191,888	609,381	
1931.....	10,050			205,126	265,991	791,123	
1929.....	12,019	352,929	607,147	290,911	423,099	1,349,191	
1927.....	10,066	(NA)	(NA)	262,816	378,321	1,088,592	
1925.....	9,638			249,552	350,835	968,065	
1923.....	9,220	(NA)	(NA)	246,154	353,183	931,817	
1921.....	8,696			198,334	284,373	663,502	
1919.....	10,282	276,381	368,702	236,932	295,726	742,493	
1914.....	9,578	164,377	139,243	137,949	104,166	262,464	
1909.....	7,659	133,499	107,096	115,296	84,141	204,522	
1904.....	6,839	112,638	79,056	100,355	64,657	151,492	
1899.....	4,997	84,101	47,385	77,224	39,890	92,491	
LOS ANGELES STANDARD METROPOLITAN AREA							
1954 <sup>1</sup> .....	14,400	639,802	2,936,808	470,732	1,930,520	5,041,546	
1947.....	9,771	358,722	1,118,344	281,806	797,090	2,052,671	
1939.....	5,505	172,757	258,967	127,425	167,133	517,671	
1929.....	5,029	127,881	210,001	103,652	151,486	505,380	
1919.....	3,721	(NA)	(NA)	63,255	74,291	183,855	
SAN DIEGO STANDARD METROPOLITAN AREA							
1954 <sup>1</sup> .....	595	47,731	221,656	37,310	156,997	390,218	
1947.....	(NA)	20,783	(NA)	(NA)	(NA)	101,548	
SAN FRANCISCO-OAKLAND STANDARD METROPOLITAN AREA							
1954 <sup>1</sup> .....	4,106	173,135	793,165	128,746	539,483	1,673,825	
1947.....	3,670	163,606	526,626	131,127	393,238	1,048,720	
1939.....	3,213	101,103	165,356	76,044	110,418	361,966	
1929.....	3,923	109,119	179,628	89,299	131,461	448,062	
1919.....	3,651	(NA)	(NA)	107,080	140,611	360,185	

NA Not available.

<sup>1</sup>The 1954 figures include data for establishments engaged in the processing and distribution of fluid milk, Industry Group 202, Dairy Products. These establishments were not included in the figures for the Annual Survey years 1949-1953 or earlier Census years. In addition, the 1954 Census and Annual Survey years include data for logging camps and contractors, Industry 2411, which were not included within the scope of the 1947 Census. See footnotes to Table 4 for comparable 1954 and 1947 totals. There were also a number of changes in the definition of manufacturing industries during earlier Census years that affect the comparability of the historical series. Among the more important of these were: figures for 1935 and later years exclude data for "Railroad repair shops" and "Manufactured gas" which were included in 1899-1933 figures; motion pictures were no longer classified as manufacturing after 1931; the minimum size of establishment included for 1954 and 1947 was one employee, for 1939-1921 manufacturing establishments reporting value of shipments of \$5,000 or more were within scope whereas for 1919 and earlier years the cut-off was \$500. (This change in procedure has not appreciably affected the comparability of the historical data except for the figures on number of establishments.)

<sup>2</sup>The employment and payroll figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period.

## MANUFACTURES—AREA STATISTICS

Table 3.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
California, total.....	10,586,223	24,509	1,027,784	4,643,717	771,796	1,531,557	3,143,793	8,597,453	549,801	<sup>1</sup> 663,872	<sup>1</sup> 3,994,981
STANDARD METROPOLITAN AREAS											
Fesno Area.....	276,515	391	12,747	50,734	9,755	18,921	34,885	117,186	3,875	7,519	57,268
Los Angeles-Long Beach area..	4,367,911	14,400	639,802	2,936,808	470,732	944,148	1,930,520	5,041,546	305,165	358,772	2,052,671
Sacramento area.....	277,140	288	10,907	46,787	8,082	15,735	31,362	112,203	11,441	8,320	52,512
San Bernardino-Riverside area	451,688	578	21,158	87,345	17,036	33,877	65,735	205,195	29,130	15,600	103,421
San Diego area.....	556,808	595	47,731	221,656	37,310	74,405	156,997	390,218	7,986	20,783	101,548
San Francisco-Oakland area...	2,240,767	4,106	173,135	793,165	128,746	250,004	539,483	1,673,825	114,955	163,606	1,048,720
San Jose area.....	290,547	567	27,942	116,213	21,304	41,433	81,328	263,587	19,914	18,389	116,810
Stockton area.....	200,750	266	11,033	45,205	9,017	17,952	34,329	109,352	4,958	9,861	65,610
COUNTIES											
Alameda.....	740,315	1,404	68,501	308,958	51,676	101,852	215,461	656,993	27,800	66,322	409,206
Alpine.....	241	12	326	1,251	261	582	886	2,715	176	(D)	(D)
Amador.....	9,151	19	540	2,352	456	922	1,851	4,149	306	444	4,495
Butte.....	64,930	115	3,083	11,984	2,649	5,121	9,932	23,023	858	2,606	15,021
Calaveras.....	9,902	27	995	4,763	822	1,678	3,478	10,223	922	1,176	7,293
Colusa.....	11,651	8	71	230	65	131	203	496	72	(D)	(D)
Contra Costa.....	298,984	233	28,014	137,238	21,531	42,428	96,943	350,049	51,829	24,316	155,142
Del Norte.....	8,078	79	2,380	10,628	2,185	4,126	9,297	20,701	1,374	332	1,809
El Dorado.....	16,207	63	1,361	5,330	1,215	2,138	4,460	9,276	755	1,524	8,493
Fresno.....	276,515	391	12,747	50,734	9,755	18,921	34,885	117,186	3,875	7,519	57,268
Glenn.....	15,448	25	467	2,138	383	742	1,437	4,412	355	192	942
Humboldt.....	69,241	488	12,733	57,704	11,347	22,065	48,503	107,099	10,491	5,872	36,369
Imperial.....	62,975	71	1,362	5,733	993	2,217	3,829	16,339	787	954	5,168
Inyo.....	11,658	7	173	466	146	192	361	587	(D)	266	1,649
Kern.....	228,309	165	3,181	14,258	2,259	4,473	9,204	33,726	2,207	2,904	27,607
Kings.....	46,768	36	740	3,013	496	1,069	1,996	7,813	400	872	6,325
Lake.....	11,481	23	177	666	149	281	463	1,096	48	150	697
Lassen.....	18,474	18	1,738	7,984	1,586	3,090	7,059	11,650	767	2,758	14,056
Los Angeles.....	4,151,687	13,861	624,047	2,872,004	458,781	920,712	1,887,031	4,925,646	290,260	352,672	2,021,513
Madera.....	36,964	43	790	3,066	643	1,266	2,338	7,296	400	700	8,779
Marin.....	85,619	92	1,154	4,943	835	1,634	3,089	10,266	822	744	3,333
Maripasa.....	5,145	6	50	130	42	71	109	253	27	121	441
Medocino.....	40,854	266	6,437	28,547	5,673	11,676	24,098	49,902	4,674	2,463	13,386
Merced.....	69,780	70	1,619	5,551	1,363	2,646	4,425	16,270	1,092	1,177	6,739
Modac.....	9,678	19	377	1,490	344	608	1,338	2,380	136	757	5,397
Mono.....	2,115	16	954	5,017	753	1,472	3,265	10,525	673	(D)	(D)
Monterey.....	130,498	143	3,122	11,733	2,537	4,381	8,449	20,618	3,691	4,093	20,169
Napa.....	46,603	58	1,771	6,841	1,498	2,830	5,352	12,120	452	(NA)	(NA)
Nevada.....	19,888	60	622	2,478	546	963	2,046	4,061	504	530	3,010
Orange.....	216,224	539	15,755	64,804	11,951	23,437	43,488	115,900	14,904	6,100	31,158
Placer.....	41,649	50	1,265	5,139	1,093	2,058	4,274	9,911	494	1,329	5,859
Plumas.....	13,519	38	1,496	7,165	1,372	2,432	5,367	12,895	434	1,839	13,300
Riverside.....	170,046	207	8,517	35,076	6,695	14,037	26,218	68,661	3,450	4,414	27,626
Sacramento.....	277,140	288	10,907	46,787	8,082	15,735	31,362	112,203	11,441	8,320	52,512
San Benito.....	14,370	13	544	1,932	481	792	1,502	4,496	205	322	1,664
San Bernardino.....	281,642	371	12,641	52,269	10,341	19,840	39,517	136,534	25,680	11,186	75,795
San Diego.....	556,808	595	47,731	221,657	37,310	74,405	156,997	390,218	7,986	20,783	101,548
San Francisco.....	775,357	1,901	56,580	253,101	40,984	77,118	166,048	495,815	26,645	61,539	409,556
San Joaquin.....	200,750	266	11,033	45,205	9,017	17,952	34,329	109,352	4,958	9,861	65,610
San Luis Obispo.....	51,417	39	414	1,401	296	507	852	2,414	97	257	1,427
San Mateo.....	235,659	413	17,021	81,033	12,257	24,158	52,327	143,261	7,386	9,430	60,228
Santa Barbara.....	98,220	125	1,928	7,762	1,360	2,649	4,822	12,822	929	1,717	14,150
Santa Clara.....	290,547	567	27,942	116,213	21,304	41,433	81,328	263,587	19,914	18,389	116,810
Santa Cruz.....	66,534	99	2,698	9,154	2,258	4,350	6,844	18,947	3,086	1,590	8,619
Shasta.....	36,413	112	3,249	14,899	2,810	5,461	12,338	25,515	3,018	1,264	8,845
Sierra.....	2,410	9	394	1,393	370	570	1,268	3,059	127	518	(D)
Siskiyou.....	30,733	94	3,766	15,792	3,463	6,329	13,787	25,693	2,663	3,456	21,118
Solano.....	104,833	63	1,865	7,892	1,463	2,814	5,615	17,441	473	1,255	11,255
Sonoma.....	103,405	271	4,702	16,740	3,846	7,334	12,625	35,271	3,093	2,900	19,146
Stanislaus.....	127,231	175	6,536	24,190	5,292	10,485	17,888	63,258	2,444	5,278	31,727
Sutter.....	26,239	30	616	2,224	524	1,082	1,812	4,592	215	363	2,563
Tehama.....	19,276	37	1,022	4,532	944	1,799	3,974	8,291	247	605	3,708
Trinity.....	5,087	48	701	2,806	626	1,128	2,356	5,255	470	366	2,207
Tulare.....	149,264	142	3,017	10,877	2,349	4,314	7,632	24,119	1,013	2,663	22,358
Tuolumne.....	12,584	29	1,060	5,574	934	2,265	4,717	8,883	488	1,351	9,343
Ventura.....	114,647	87	2,700	12,022	1,598	3,131	5,705	20,556	1,265	1,575	8,354
Yolo.....	40,640	48	1,333	5,282	1,075	2,287	4,139	15,553	557	1,202	13,214
Yuba.....	24,420	35	792	3,543	669	1,342	2,844	6,052	335	670	4,748

See footnotes at end of table.



Table 3.--GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947--Continued  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954							1947		
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
CITIES WITH 10,000 INHAB- ITANTS OR MORE											
Alameda.....	64,430	48	2,533	12,247	1,969	4,031	9,106	22,640	497	8,166	31,484
Albany.....	17,590	9	167	800	125	238	569	1,628	11	20	101
Alhambra.....	51,359	128	4,788	21,898	3,622	7,446	14,828	39,438	1,522	4,708	19,995
Anaheim.....	14,556	78	4,499	19,394	3,385	6,750	13,009	30,688	4,392	541	3,049
Antioch.....	11,051	7	1,404	5,522	1,092	2,159	3,958	13,700	404	(NA)	(NA)
Arcadia.....	23,066	45	543	2,142	403	759	1,321	4,001	249	(NA)	(NA)
Azusa.....	11,042	50	4,512	23,665	2,828	5,765	13,798	43,972	1,737	(NA)	(NA)
Bakersfield.....	34,784	80	1,473	6,686	991	1,940	4,034	14,775	546	956	6,616
Bell.....	15,430	48	331	1,174	272	533	957	2,178	115	179	1,083
Berkeley.....	113,805	207	8,030	35,935	5,761	11,109	22,988	82,799	3,137	8,018	54,123
Beverly Hills.....	29,032	102	1,619	6,843	1,142	2,256	4,131	12,645	328	1,639	9,145
Brawley.....	11,922	11	90	394	48	103	178	796	47	63	442
Burbank.....	78,577	433	39,018	195,407	26,087	53,716	111,163	340,542	8,112	18,178	97,707
Burlingame.....	19,886	24	467	2,096	221	367	874	2,828	118	166	778
Chico.....	12,272	23	632	2,174	492	971	1,588	3,171	161	(NA)	(NA)
Chula Vista.....	15,927	17	6,327	(D)	5,370	(D)	(D)	(D)	(D)	(NA)	(NA)
Colton.....	14,465	19	719	2,747	596	1,224	2,128	5,426	757	(NA)	(NA)
Compton.....	47,991	155	2,549	11,355	2,021	4,105	8,240	18,999	783	1,232	7,223
Concord <sup>2</sup> .....	6,953	9	69	273	50	87	198	445	13	(NA)	(NA)
Corona.....	10,223	17	1,035	4,143	767	1,621	2,756	10,560	846	(NA)	(NA)
Coronado.....	12,700	3	46	165	39	68	140	211	...	(NA)	(NA)
Culver City.....	19,720	231	7,464	35,299	6,309	13,020	27,928	57,989	3,986	(NA)	(NA)
Daly City.....	15,191	17	73	231	50	100	156	466	24	(NA)	(NA)
Delano <sup>2</sup> .....	8,717	8	55	169	40	81	126	361	38	(NA)	(NA)
El Cajon <sup>2</sup> .....	5,600	31	385	1,505	310	609	1,145	3,055	101	(NA)	(NA)
El Centro.....	12,590	20	339	1,648	160	298	660	2,895	109	531	3,202
El Cerrito.....	18,011	9	220	629	206	364	581	915	58	(NA)	(NA)
Eureka.....	23,058	53	2,849	14,484	2,470	5,203	12,180	25,979	1,286	1,444	7,853
Fresno.....	91,669	220	6,953	28,504	5,024	9,717	18,493	51,419	1,736	3,283	19,972
Fullerton.....	13,958	41	1,549	6,410	1,269	2,632	4,874	17,434	1,622	1,222	5,366
Gardena.....	14,405	136	2,246	9,293	1,809	3,567	6,712	14,904	780	(NA)	(NA)
Glendale.....	95,702	398	10,365	48,189	7,286	14,539	30,269	84,489	3,485	5,812	27,832
Hanford.....	10,028	16	418	1,693	248	518	994	4,534	183	(NA)	(NA)
Hawthorne.....	16,316	68	24,437	119,439	15,017	29,733	61,343	159,152	1,441	(NA)	(NA)
Hayward.....	14,272	43	2,752	11,866	2,218	4,872	9,488	31,736	584	(NA)	(NA)
Hermosa Beach.....	11,826	16	263	938	207	397	637	1,465	80	(NA)	(NA)
Huntington Park.....	29,450	152	5,315	24,614	3,904	8,000	16,000	36,999	1,443	4,008	20,756
Inglewood.....	46,185	183	3,323	14,522	2,708	5,563	10,512	27,379	920	2,036	10,544
La Mesa.....	10,946	19	141	457	114	207	350	777	70	(NA)	(NA)
Lodi.....	13,798	38	1,341	5,773	1,093	2,211	4,596	19,384	702	884	5,062
Long Beach.....	250,767	347	25,399	125,915	20,190	40,880	92,418	239,237	3,459	8,272	71,311
Los Angeles.....	1,970,358	7,502	268,806	1,162,240	198,738	391,832	762,797	2,036,782	115,514	167,055	930,299
Lynwood.....	25,823	111	3,279	15,898	2,515	5,182	10,861	26,901	3,447	1,544	6,243
Madera.....	10,497	12	181	653	133	227	415	1,854	78	(NA)	(NA)
Manhattan Beach.....	17,330	8	445	1,667	333	664	1,114	2,278	42	(NA)	(NA)
Maywood.....	13,292	44	729	3,116	585	1,143	2,326	5,627	189	275	2,000
Menlo Park.....	13,587	17	309	1,543	150	291	625	3,282	101	(NA)	(NA)
Merced.....	15,278	22	526	1,654	433	821	1,249	3,304	349	186	777
Millbrae <sup>2</sup> .....	8,972	7	227	(D)	186	(D)	(D)	(D)	(D)	(NA)	(NA)
Modesto.....	17,389	76	2,808	10,890	2,148	4,434	7,324	35,057	834	2,649	16,021
Monrovia.....	20,186	88	3,062	13,747	2,291	4,475	9,134	24,870	1,218	1,118	7,401
Montebello.....	21,735	73	2,769	13,359	1,906	3,907	7,750	20,626	865	(NA)	(NA)
Monterey.....	16,205	22	504	1,516	408	574	1,107	2,458	54	1,548	4,727
Monterey Park.....	20,395	31	687	2,900	410	776	1,303	6,216	212	(NA)	(NA)
Mountain View <sup>2</sup> .....	6,563	21	417	1,514	336	586	1,163	1,931	339	(NA)	(NA)
Napa.....	13,579	24	776	2,764	665	1,191	2,088	5,135	166	(NA)	(NA)
National City.....	21,199	24	302	1,288	237	479	936	2,091	286	207	1,366
Newport Beach.....	12,120	36	646	2,765	510	979	2,042	3,861	42	(NA)	(NA)
Oakland.....	384,575	786	32,202	143,796	24,080	47,014	98,251	289,266	12,745	31,998	207,569
Oceanside.....	12,881	17	89	320	66	121	210	481	41	(NA)	(NA)
Ontario.....	22,872	40	1,961	8,669	1,533	3,089	6,253	27,006	1,163	1,944	11,117
Orange.....	10,027	28	785	3,058	594	1,217	2,066	4,830	2,260	(NA)	(NA)
Oxnard.....	21,567	20	734	2,661	615	1,038	1,878	5,802	317	(NA)	(NA)
Palm Springs <sup>2</sup> .....	7,660	7	34	133	14	27	55	282	12	(NA)	(NA)
Palo Alto.....	25,475	53	1,467	7,682	960	1,854	4,478	14,049	1,038	878	4,447
Pasadena.....	104,577	394	11,122	48,422	8,613	17,215	33,135	78,461	3,136	5,298	24,493
Petaluma.....	10,315	22	773	3,069	577	1,191	2,209	5,430	131	(NA)	(NA)
Piedmont.....	10,132	4	6	10	4	8	8	32	1	(NA)	(NA)
Pittsburg.....	12,763	16	4,361	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Pomona.....	35,405	81	7,269	34,821	5,906	12,351	27,607	63,142	4,177	2,487	11,396

See footnotes at end of table.

## MANUFACTURES—AREA STATISTICS

Table 3.--GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
Redding.....	10,256	28	309	1,119	195	341	627	2,379	164	(NA)	(NA)
Redlands.....	18,429	22	350	1,013	282	552	734	1,848	46	260	1,055
Redondo.....	25,226	31	408	1,896	321	657	1,345	3,492	130	161	978
Redwood City.....	25,544	64	2,175	10,478	1,447	2,855	5,966	18,477	1,263	1,352	5,992
Richmond.....	99,545	88	9,923	50,593	7,733	15,213	35,409	119,469	16,616	9,102	50,834
Riverside.....	46,764	62	3,424	14,442	2,502	5,166	10,167	23,280	1,060	1,957	10,440
Sacramento.....	137,572	183	6,187	26,606	4,390	8,311	16,935	54,733	2,477	5,716	37,014
Salinas.....	13,917	47	977	4,064	767	1,449	2,794	7,371	1,024	728	5,012
San Bernardino.....	63,058	86	1,642	6,916	1,082	2,126	4,211	11,909	483	1,196	5,901
San Bruno.....	12,478	13	1,215	5,730	955	1,836	4,232	9,825	462	(NA)	(NA)
San Buenaventura.....	16,534	15	240	1,047	116	227	453	2,069	621	317	2,311
San Carlos.....	14,371	56	3,342	16,759	2,412	4,931	10,701	32,975	690	(NA)	(NA)
San Diego.....	334,387	368	39,157	183,402	30,134	59,325	126,772	340,562	6,535	18,553	91,062
San Fernando.....	12,992	33	629	2,122	555	980	1,614	3,509	188	(NA)	(NA)
San Francisco <sup>3</sup> .....	775,357	1,901	56,580	253,101	40,984	77,118	166,048	495,815	26,645	61,539	409,556
San Gabriel.....	20,343	68	688	7,776	1,296	2,821	4,783	19,090	333	368	2,238
San Jose.....	95,280	240	13,532	55,560	10,185	20,312	39,021	132,582	6,514	8,699	57,581
San Leandro.....	27,542	113	9,757	43,401	7,650	15,292	32,483	109,964	3,990	3,552	17,913
San Luis Obispo.....	14,180	12	235	825	157	261	454	1,208	22	(NA)	(NA)
San Marino.....	11,230	3	13	(D)	8	(D)	(D)	(D)	(D)	(NA)	(NA)
San Mateo.....	41,782	37	170	621	135	248	460	1,506	58	211	1,572
San Pablo.....	14,476	13	348	1,485	308	595	1,273	3,684	39	(NA)	(NA)
San Rafael.....	13,848	34	480	2,227	283	570	1,204	4,432	244	(NA)	(NA)
Santa Ana.....	45,533	96	2,224	8,621	1,539	2,837	5,154	15,457	2,647	1,432	7,475
Santa Barbara.....	44,913	78	1,171	4,782	750	1,419	2,594	7,675	400	534	3,148
Santa Clara.....	11,702	77	4,310	17,222	3,422	6,359	12,274	32,190	5,983	(NA)	(NA)
Santa Cruz.....	21,970	40	1,205	3,800	1,031	1,975	2,951	7,553	2,672	519	2,691
Santa Maria.....	10,440	17	212	775	151	303	474	1,544	71	(NA)	(NA)
Santa Monica.....	71,595	215	20,000	101,649	13,918	28,689	63,060	128,573	7,505	14,882	(D)
Santa Paula.....	11,049	7	58	220	40	76	145	333	31	(NA)	(NA)
Santa Rosa.....	17,902	50	758	2,781	554	1,046	1,756	5,530	159	456	2,220
South Gate.....	51,116	245	9,119	42,677	7,133	14,467	30,062	80,828	5,456	7,394	43,856
South Pasadena.....	16,935	47	1,244	4,973	974	2,031	3,316	9,166	198	966	4,705
South San Francisco.....	19,351	71	6,318	29,478	4,720	9,064	20,213	48,553	2,850	(NA)	(NA)
Stockton.....	70,853	135	6,114	25,807	4,887	9,726	18,909	52,562	2,739	4,012	25,996
Sunnyvale <sup>2</sup> .....	9,829	19	4,709	21,111	3,537	7,038	14,971	49,362	2,502	(NA)	(NA)
Torrance.....	22,241	69	289	30,725	4,734	9,612	21,529	60,214	8,401	(D)	(D)
Tulare.....	12,445	23	275	1,024	202	399	685	1,946	131	(NA)	(NA)
Upland <sup>2</sup> .....	9,203	9	206	746	165	304	510	1,251	80	(NA)	(NA)
Vallejo.....	26,038	23	526	2,005	363	690	1,299	6,923	124	580	(D)
Visalia.....	11,749	22	517	2,254	349	691	1,385	4,941	168	(NA)	(NA)
Watsonville.....	11,572	27	733	2,358	591	1,163	1,664	5,092	181	(NA)	(NA)
West Cavina <sup>2</sup> .....	4,499	3	97	(D)	88	(D)	(D)	(D)	(D)	(NA)	(NA)
Whittier.....	23,820	58	1,515	6,989	1,042	2,187	4,243	13,070	976	449	1,759

D Withheld to avoid disclosing figures for individual companies.

NA Detail figures are not available but are included in totals for the area.

<sup>1</sup>The 1947 data are not strictly comparable with the figures shown for 1954 due to differences in coverage of loggers and fluid milk distributors. See discussion in Introduction and footnotes to Table 4.<sup>2</sup>A special Census of Population conducted by the Bureau of Census between 1950 and 1953 indicated that the city had a population of 10,000 inhabitants or more. Consequently data are included for this city. The population figures shown in the table however, are based on the 1950 Census of Population.<sup>3</sup>San Francisco city is coextensive with San Francisco county.



Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954								1947			
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
	All industries, total <sup>1</sup> ...	24,509	6,642	1,027,784	4,643,717	771,796	1,531,557	3,143,793	8,597,453	( <sup>2</sup> )	549,801	<sup>3</sup> 663,872	<sup>3</sup> 3,994,981
20	Food and kindred products..	3,058	1,136	143,958	594,889	101,632	197,671	366,080	1,400,857	( <sup>2</sup> )	107,223	( <sup>4</sup> )	( <sup>4</sup> )
201	Meat products.....	376	155	17,934	78,627	13,515	27,365	54,206	131,537	( <sup>2</sup> )	7,114	13,617	69,690
2011	Meat packing plants.....	122	77	10,773	52,209	7,736	16,327	35,365	80,139	( <sup>2</sup> )	4,211	10,353	51,240
2013	Prepared meats.....	112	35	3,730	16,513	2,695	5,419	10,616	29,424	( <sup>2</sup> )	1,483	2,337	15,076
2015	Poultry dressing plants.....	142	43	3,430	9,905	3,083	5,618	8,224	21,973	110,123	1,419	927	3,374
202	Dairy products.....	444	171	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2021	Creamery butter.....	18	8	492	1,916	386	768	1,465	3,538	27,496	203	( <sup>4</sup> )	( <sup>4</sup> )
2022	Natural cheese.....	20	6	403	1,683	300	592	1,143	2,639	13,889	205	( <sup>4</sup> )	( <sup>4</sup> )
2023	Concentrated milk.....	30	17	1,376	5,542	1,001	1,936	3,747	15,690	70,152	608	( <sup>4</sup> )	( <sup>4</sup> )
2024	Ice cream and ices.....	98	22	2,193	8,687	1,085	2,115	4,075	16,392	40,383	921	( <sup>4</sup> )	( <sup>4</sup> )
2026	Fluid milk.....	71	10	1,023	4,192	552	1,117	1,934	6,140	20,807	319	( <sup>4</sup> )	( <sup>4</sup> )
2027	Fluid milk and other products..	195	105	13,269	62,197	5,100	10,506	21,990	125,349	387,546	4,809	( <sup>4</sup> )	( <sup>4</sup> )
203	Canned and frozen foods.....	483	263	42,788	146,473	37,662	71,343	117,645	374,361	( <sup>2</sup> )	20,931	41,320	254,696
2031	Canned seafood.....	33	27	5,755	18,795	5,369	8,384	16,020	38,289	137,290	816	8,136	52,724
2032	Cured fish.....	7	3	148	595	93	177	296	668	2,471	13	150	743
2033	Canned fruits and vegetables...	197	128	24,732	87,561	21,759	42,911	71,390	235,425	569,311	13,755	26,774	162,457
2034	Dehydrated fruits & vegetables.	99	47	5,030	15,871	4,448	8,584	12,513	36,813	147,008	2,647	1,701	9,916
2035	Pickles and sauces.....	89	19	2,392	9,430	1,887	3,948	6,652	26,903	84,866	1,647	2,555	21,703
2036	Packaged seafood.....	13	2	151	380	127	186	279	616	2,220	55		
2037	Frozen fruits and vegetables...	45	37	4,578	13,838	3,977	7,149	10,492	35,645	97,674	1,995	2,004	7,153
204	Grain mill products.....	224	82	7,354	32,782	5,133	10,745	20,621	103,055	( <sup>2</sup> )	3,853	6,536	58,132
2041	Flour and meal.....	14	5	795	3,653	572	1,210	2,516	11,609	52,036	290	831	7,067
2042	Prepared animal feeds.....	179	61	4,945	21,683	3,259	6,818	12,816	57,579	238,270	2,377	4,828	37,711
2044	Rice milling.....	8	7	505	2,352	406	864	1,562	9,259	67,064	465	444	8,971
205	Bakery products.....	405	144	20,681	96,945	11,973	23,157	46,827	166,154	( <sup>2</sup> )	6,099	16,547	104,136
2051	Bread and related products....	383	130	18,055	87,229	9,917	19,000	40,181	138,915	256,527	5,390	13,668	85,630
2052	Biscuit and crackers.....	22	14	2,626	9,716	2,055	4,157	6,646	27,239	49,812	708	2,879	18,506
206	Sugar.....	12	12	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2063	Beet sugar.....	11	11	3,027	11,605	2,759	5,494	10,338	25,500	96,008	1,134	2,788	21,410
207	Candy and related products...	149	50	4,945	16,869	3,860	7,470	11,159	33,605	( <sup>2</sup> )	(D)	5,260	28,687
2071	Confectionery products.....	143	48	4,716	15,856	3,677	7,158	10,538	31,149	75,809	(D)	5,010	25,616
208	Beverages.....	375	117	14,127	67,269	8,689	16,741	36,736	211,307	( <sup>2</sup> )	47,531	13,640	157,469
2081	Bottled soft drinks.....	202	62	4,517	20,316	1,810	2,982	5,957	45,170	73,454	2,644	4,025	26,280
2082	Beer and ale.....	17	15	5,782	32,667	3,844	7,996	21,119	87,207	156,792	43,570	4,144	48,401
2084	Wines and brandy.....	143	34	3,359	12,357	2,648	5,050	8,284	61,634	( <sup>2</sup> )	1,209	4,650	68,926
209	Miscellaneous foods.....	590	142	12,433	51,087	8,007	15,417	27,321	163,913	( <sup>2</sup> )	8,772	13,403	113,859
2092	Shortening and cooking oils....	30	6	1,167	5,818	796	1,595	3,584	16,760	104,160	1,243	507	10,860
2095	Flavorings.....	55	14	1,546	6,917	909	1,698	3,118	22,958	54,843	682	1,870	14,776
2097	Manufactured ice.....	135	33	1,842	7,280	1,095	2,104	3,784	14,203	17,158	2,005	4,702	25,115
2098	Macaroni and spaghetti.....	50	14	723	2,649	543	1,102	1,738	5,487	15,617	457	689	3,597
2099	Food preparations, n.e.c.....	311	68	6,840	26,983	4,421	8,428	14,018	98,284	403,203	3,971	(D)	(D)
21	Tobacco manufactures.....	14	3	357	1,001	296	481	694	1,453	( <sup>2</sup> )	49	(D)	(D)
22	Textile mill products.....	191	64	5,368	19,850	4,498	8,855	14,678	39,302	( <sup>2</sup> )	1,989	5,326	32,349
221	Woolen and worsted manufac- ture.....	8	2	112	409	92	173	274	673	( <sup>2</sup> )	28	394	1,664
225	Knitting mills.....	73	17	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2251	Full-fashioned hosiery mills...	15	6	435	1,504	373	759	1,195	3,279	7,518	13	440	2,086
228	Hats, except cloth and mil- linery.....	7	1	103	339	81	142	190	466	( <sup>2</sup> )	(D)	140	(D)
229	Miscellaneous textile goods..	42	23	1,655	6,775	1,353	2,809	4,805	13,936	( <sup>2</sup> )	751	1,566	9,151
2291	Felt goods, n.e.c.....	6	3	461	2,182	381	933	1,704	4,729	8,841	227	(D)	(D)
2293	Padding and upholstery filling.	17	11	609	2,282	504	979	1,653	4,231	11,616	167	339	(D)
2298	Cordage and twine.....	8	5	388	1,473	311	580	903	3,062	6,216	(D)	590	3,530
23	Apparel and related prod- ucts.....	2,189	729	55,481	164,718	48,993	86,544	127,098	279,351	( <sup>2</sup> )	4,791	43,144	188,294
231	Men's and boys' suits and coats.....	69	35	3,105	10,506	2,805	4,913	8,605	14,631	( <sup>2</sup> )	112	3,202	12,993
232	Men's and boys' furnishings...	292	132	11,335	30,129	10,312	18,128	24,291	60,407	( <sup>2</sup> )	813	8,256	31,435
2325	Men's and boys' cloth hats...	19	...	145	414	136	268	371	593	1,244	(D)	(D)	(D)
2327	Separate trousers.....	55	11	1,912	5,750	1,699	3,067	4,376	8,631	18,835	73	1,817	7,776
2329	Men's and boys' clothing, nec..	82	43	3,672	9,573	3,336	5,771	7,561	28,717	48,453	233	2,649	10,009
233	Women's and misses' outerwear	865	351	24,092	74,346	21,330	37,043	57,744	125,311	( <sup>2</sup> )	1,445	19,356	89,635
2333	Dresses, unit price.....	271	101	6,254	18,184	5,630	9,670	14,768	30,326	56,416	291	5,630	24,738
2334	Dresses, dozen price.....	58	18	1,211	3,302	1,068	1,940	2,471	5,544	10,237	47	964	3,763
2337	Women's suits, coats and skirts	288	125	8,314	29,015	7,261	12,334	22,269	49,274	109,274	415	6,318	35,003
2339	Women's outerwear, n.e.c.....	109	57	5,160	16,492	4,463	8,315	11,951	27,775	51,880	511	2,682	10,711
234	Women's undergarments.....	88	43	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2341	Women's & children's underwear.	39	19	1,407	3,647	1,276	2,287	3,023	4,706	12,410	193	1,126	5,031
236	Children's outerwear.....	137	47	2,903	7,227	2,629	4,480	6,154	11,883	( <sup>2</sup> )	141	836	3,036
2361	Children's dresses.....	65	18	1,430	3,599	1,276	2,210	2,990	5,609	12,089	54	(D)	(D)

See footnotes at end of table.

## MANUFACTURES—AREA STATISTICS

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establish- ments, number		All employees		Production workers			Value added by manufacture	Value of shipments	Capital expendi- tures, new	All employees, number	Value added by manufacture
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
238	Apparel and related products—Continued Miscellaneous apparel.....	96	24	1,872	6,056	1,604	2,996	4,448	9,047	( <sup>2</sup> )	114	1,546	7,097
239	Fabricated textiles, n.e.c....	545	89	7,982	24,113	6,721	12,486	17,071	37,179	( <sup>2</sup> )	1,594	5,275	24,754
2391	Curtains and draperies.....	107	18	1,497	4,315	1,289	2,423	3,236	6,008	16,373	93	820	4,194
2392	House furnishings, n.e.c.....	77	18	1,151	3,160	969	1,806	2,228	5,653	14,559	159	647	2,926
2393	Textile bags.....	14	9	1,073	3,804	833	1,609	2,560	5,913	19,431	261	713	4,496
2394	Canvas products.....	79	10	790	3,056	620	1,077	1,599	4,845	10,043	103	813	3,706
2395	Tucking pleating and stitching.	34	3	500	1,182	483	912	1,083	1,708	2,095	89	254	962
2396	Trimings and art goods.....	45	10	1,200	3,868	981	1,923	2,802	5,135	15,665	388	(D)	(D)
2399	Textile products, n.e.c.....	129	14	1,128	3,271	943	1,793	2,316	5,424	11,601	488	837	3,474
24	Lumber and wood products...	2,397	573	55,735	242,966	49,837	96,566	203,729	422,036	( <sup>2</sup> )	33,777	( <sup>4</sup> )	( <sup>4</sup> )
2411	Logging camps and contractors	702	66	5,912	24,721	5,452	10,143	21,008	48,192	84,515	7,370	( <sup>4</sup> )	( <sup>4</sup> )
242	Lumber and basic products....	809	314	31,436	140,885	28,336	54,616	119,043	247,943	( <sup>2</sup> )	19,909	25,515	156,257
2421	Sawmills and planing mills....	776	305	30,806	138,208	27,776	53,541	116,929	242,299	496,959	19,246	25,470	155,955
2422	Veneer mills.....	13	9	517	2,332	465	895	1,877	4,929	11,094	631	(D)	(D)
243	Millwork and related products	491	118	11,252	51,336	9,717	19,463	41,899	81,588	( <sup>2</sup> )	4,410	7,303	38,419
2431	Millwork plants.....	454	95	7,443	32,346	6,283	12,274	25,234	47,762	119,744	1,451	6,348	33,394
2432	Plywood plants.....	23	18	3,483	17,471	3,158	6,658	15,539	30,241	58,695	2,888	414	2,745
2433	Prefabricated wood products....	14	5	326	1,518	274	531	1,125	3,584	8,310	70	541	2,280
244	Wooden containers.....	140	31	3,493	13,238	3,138	6,042	11,507	21,193	( <sup>2</sup> )	1,094	3,437	18,929
2444	Wooden boxes.....	128	27	3,271	12,383	2,943	5,680	10,842	19,782	45,332	1,037	3,042	17,209
249	Miscellaneous wood products..	255	44	3,639	12,785	3,193	6,300	10,269	23,118	( <sup>2</sup> )	993	2,229	12,628
2491	Wood preserving.....	10	6	362	1,727	302	634	1,368	3,731	11,445	205	441	4,738
2493	Mirror and picture frames.....	41	3	274	782	235	470	621	1,465	2,522	13	133	(D)
2499	Wood products, n.e.c.....	204	35	3,002	10,276	2,655	5,195	8,279	17,921	33,970	773	1,655	(D)
25	Furniture and fixtures.....	1,354	280	22,411	90,821	18,644	35,893	67,961	153,651	( <sup>2</sup> )	3,737	18,454	91,544
251	Household furniture.....	875	200	16,911	67,423	14,183	27,299	51,174	113,909	( <sup>2</sup> )	2,486	13,421	64,215
2511	Wood furniture, not upholstered	399	78	6,279	24,445	5,357	10,448	18,676	38,400	68,263	915	5,873	26,714
2512	Upholstered household furniture	263	74	5,264	21,003	4,559	8,597	16,764	33,934	67,124	478	3,566	16,622
2514	Metal household furniture.....	70	17	2,099	8,375	1,703	3,326	6,209	14,914	29,753	(D)	726	(D)
2515	Mattresses and bedsprings.....	124	27	2,969	12,355	2,316	4,465	8,657	24,161	51,730	(D)	3,121	15,616
2519	Household furniture, n.e.c.....	19	4	299	1,244	246	461	866	2,499	4,506	27	129	(D)
252	Office furniture.....	29	8	455	1,783	377	745	1,361	3,120	( <sup>2</sup> )	99	(D)	(D)
253	Public and professional fur- niture.....	45	10	907	4,064	759	1,512	2,840	6,729	( <sup>2</sup> )	251	309	1,469
2541	Partitions and fixtures.....	202	37	2,353	10,844	1,942	3,760	8,128	17,729	30,754	529	2,460	14,295
256	Screens, shades, and blinds..	171	18	1,468	5,395	1,109	2,052	3,411	10,415	( <sup>2</sup> )	332	1,684	8,538
2563	Venetian blinds.....	117	10	854	3,031	644	1,193	1,897	5,711	14,281	154	1,161	5,022
259	Furniture and fixtures, nec..	32	7	314	1,310	273	524	1,046	1,746	( <sup>2</sup> )	37	(D)	(D)
26	Pulp, paper and products...	335	172	20,703	89,380	16,595	33,817	67,618	182,701	( <sup>2</sup> )	18,322	12,128	80,710
261	Pulp, paper and board.....	27	21	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2612	Paper and paperboard mills....	13	12	2,358	11,234	1,891	4,022	8,815	29,523	72,408	1,161	(NA)	(NA)
2651	Envelopes.....	18	12	929	4,064	739	1,479	2,856	7,345	14,063	282	718	3,921
2661	Paper bags.....	33	17	1,969	7,764	1,522	3,046	5,347	14,274	41,383	2,492	1,038	7,622
267	Paperboard containers.....	121	67	8,240	35,998	6,709	13,825	27,580	62,973	( <sup>2</sup> )	7,620	5,062	30,678
2671	Paperboard boxes.....	114	63	7,867	34,477	6,404	13,181	26,426	61,011	160,374	7,377	4,937	30,222
2674	Fiber cans, tubes, drums, etc..	7	4	373	1,521	304	643	1,154	1,961	4,738	243	125	456
269	Pulp, paper and products n.e.c.....	117	48	4,853	19,185	3,898	7,711	14,708	41,821	( <sup>2</sup> )	(D)	2,108	13,335
2699	Paper and board products, nec..	86	36	4,122	16,937	3,369	6,679	12,743	35,405	81,171	4,243	1,732	11,554
27	Printing and publishing....	2,648	417	52,682	250,299	30,831	56,357	142,901	416,442	( <sup>2</sup> )	14,592	41,914	261,064
2711	Newspapers.....	554	143	25,222	121,939	11,693	21,063	58,268	203,672	289,306	4,969	19,308	123,853
2721	Periodicals.....	181	17	1,547	6,900	295	552	1,409	15,763	26,666	283	1,679	14,572
273	Books.....	81	10	749	3,456	288	544	1,232	6,579	( <sup>2</sup> )	287	562	3,623
2731	Book, publishing and printing..	43	4	430	1,990	14	23	42	4,178	7,105	122	(D)	(D)
2732	Book printing.....	38	6	319	1,466	273	520	1,190	2,401	3,871	165	(D)	(D)
2751	Commercial printing.....	1,045	116	11,652	53,287	9,166	16,664	40,065	87,413	139,515	4,530	11,306	64,676
2761	Lithographing.....	308	61	6,719	34,495	4,677	8,780	21,715	53,135	97,362	2,924	3,528	23,495
278	Bookbinding and related in- dustries.....	108	22	2,551	10,292	2,000	3,740	7,096	16,818	( <sup>2</sup> )	594	2,153	9,326
2781	Bookbinding.....	57	8	562	1,827	504	940	1,554	2,870	3,542	147	477	2,239
2782	Blank books and paper ruling...	20	5	679	2,902	594	994	2,216	5,651	8,751	201	806	3,264
279	Printing trade services.....	252	35	2,515	13,557	1,921	3,640	10,387	21,411	( <sup>2</sup> )	721	2,159	14,907
2791	Typesetting.....	113	9	829	4,066	665	1,261	3,387	6,698	7,698	281	545	3,467
2792	Engraving and plate printing..	38	...	183	705	136	251	426	1,163	1,660	100	163	(D)
2794	Electrotyping and stereotyping..	15	9	370	2,098	269	505	1,496	3,342	4,052	94	328	(D)

See footnotes at end of table.



Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
28	Chemicals and products.....	1,110	312	31,579	147,542	20,762	41,220	83,148	424,136	( <sup>2</sup> )	27,700	27,350	280,195
281	Inorganic chemicals.....	49	26	4,820	23,856	3,517	6,908	16,118	80,000	( <sup>2</sup> )	9,553	4,486	31,758
282	Organic chemicals.....	57	32	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2822	Intermediates & organic colors.	4	3	440	2,185	302	602	1,406	3,302	12,684	166	(NA)	(NA)
2823	Plastics materials.....	26	13	683	3,642	431	854	1,920	7,731	23,868	1,335	(D)	(D)
2829	Organic chemicals, n.e.c.....	22	11	1,333	6,740	915	1,816	3,993	32,667	55,293	1,126	(NA)	(NA)
283	Drugs and medicines.....	141	30	3,191	14,751	2,092	4,147	6,901	33,086	( <sup>2</sup> )	1,805	2,620	19,046
2831	Biological products.....	11	3	965	4,501	602	1,237	2,174	8,201	13,115	347	91	(D)
2833	Medicinal chemicals.....	17	3	187	915	125	251	509	2,411	5,404	479	101	(D)
2834	Pharmaceutical preparations....	113	24	2,039	9,334	1,364	2,658	4,217	22,472	36,075	978	2,228	15,089
284	Soap and related products....	163	32	4,205	19,871	2,399	4,513	9,359	79,674	( <sup>2</sup> )	1,960	2,860	40,639
2841	Soap and glycerin.....	29	11	2,288	11,190	1,418	2,771	6,276	50,019	96,232	621	1,680	32,457
285	Paints and allied products...	220	68	5,591	25,482	3,396	6,688	13,539	63,878	( <sup>2</sup> )	1,902	4,905	51,799
2851	Paints and varnishes.....	194	62	5,261	24,058	3,157	6,212	12,614	61,195	149,620	1,777	4,467	45,070
287	Fertilizers.....	58	11	1,033	4,179	572	1,267	1,944	5,914	( <sup>2</sup> )	579	(D)	(D)
288	Vegetable and animal oils....	71	35	2,740	14,018	2,058	4,593	9,052	30,027	( <sup>2</sup> )	2,443	2,693	46,600
2881	Cottonseed oil mills.....	13	9	950	4,702	748	1,687	3,133	12,353	56,906	1,050	529	8,825
2886	Grease and tallow.....	35	14	1,044	5,373	780	1,677	3,512	10,438	25,257	809	857	9,388
2889	Animal oils, n.e.c.....	8	3	159	987	65	157	325	1,107	3,686	31	182	873
289	Chemical products, n.e.c.....	348	78	6,715	28,959	4,459	8,589	16,035	75,525	( <sup>2</sup> )	5,775	5,538	46,175
2891	Printing ink.....	22	9	774	3,556	597	1,182	2,377	9,898	18,120	525	482	5,428
2893	Toilet preparations.....	97	17	1,574	6,004	1,081	1,988	3,065	16,048	26,697	568	1,269	9,675
2896	Compressed and liquefied gases.	33	17	961	4,325	640	1,313	2,725	10,924	14,332	1,649	996	6,941
2897	Insecticides and fungicides....	34	14	939	4,042	536	1,039	1,942	9,222	26,718	523	573	4,905
2898	Salt.....	8	3	628	3,076	448	1,010	1,991	8,932	11,750	(D)	485	(D)
2899	Chemical products, n.e.c.....	134	15	1,482	6,358	889	1,519	2,836	17,022	32,113	579	1,047	9,541
29	Petroleum and coal products	136	60	20,386	107,003	14,570	29,140	69,274	275,705	( <sup>2</sup> )	106,980	21,472	213,503
2911	Petroleum refining.....	56	38	17,814	94,688	12,585	25,183	60,853	245,884	1,661,969	(D)	(D)	(D)
295	Paving and roofing materials.	42	17	1,881	9,130	1,442	2,926	6,222	21,334	( <sup>2</sup> )	636	2,048	19,804
299	Petroleum and coal products, n.e.c.....	37	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2992	Lubricants, n.e.c.....	34	3	388	1,842	280	516	1,099	3,452	10,786	207	280	(D)
30	Rubber products.....	195	74	16,381	74,061	13,265	25,995	56,092	135,273	( <sup>2</sup> )	14,502	(D)	(D)
3099	Rubber industries, n.e.c.....	184	66	6,421	26,038	4,962	9,591	16,930	45,914	85,713	4,114	3,304	14,699
31	Leather and leather goods..	230	70	6,092	21,996	5,198	9,940	16,128	35,166	( <sup>2</sup> )	1,788	5,790	25,381
3111	Leather tanning and finishing	12	9	727	3,386	653	1,366	2,764	5,419	12,735	283	693	5,236
3121	Industrial leather belting...	9	3	694	3,659	426	804	1,688	5,585	7,610	(D)	611	2,299
314	Footwear, except rubber.....	58	28	2,546	8,330	2,278	4,206	6,523	12,328	( <sup>2</sup> )	190	2,495	9,804
315	Leather gloves.....	16	5	254	653	211	359	493	949	( <sup>2</sup> )	7	242	(D)
3152	Leather work gloves.....	12	2	160	436	134	228	312	631	1,136	(D)	171	562
3161	Luggage.....	30	11	701	2,484	602	1,235	1,946	4,365	8,588	572	839	3,808
317	Purses and small leather goods.....	47	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3171	Handbags and purses.....	34	6	613	1,840	544	1,034	1,498	3,256	5,650	85	287	1,017
319	Miscellaneous leather goods..	46	4	363	1,061	315	630	780	2,183	( <sup>2</sup> )	62	429	1,578
3199	Leather goods, n.e.c.....	36	4	307	866	273	552	644	1,976	3,588	(D)	303	967
32	Stone, clay, and glass products.....	1,007	243	33,115	139,821	27,332	54,040	106,289	297,934	( <sup>2</sup> )	28,327	27,292	154,618
3231	Products of purchased glass..	73	12	937	3,089	786	1,411	2,463	4,875	8,845	132	816	3,802
3241	Cement, hydraulic.....	11	10	3,993	18,805	3,174	6,592	13,546	58,355	97,204	7,881	3,455	30,039
325	Structural clay products.....	78	46	5,802	24,077	4,777	9,514	18,544	44,485	( <sup>2</sup> )	3,495	4,022	18,357
3251	Brick and hollow tile.....	32	19	1,193	5,046	1,002	2,065	3,643	7,839	10,407	572	908	3,651
3253	Floor and wall tile.....	15	11	3,007	12,059	2,521	4,911	9,842	20,787	27,390	1,819	(D)	(D)
326	Pottery and related products.	316	54	5,727	18,200	5,133	9,373	15,213	33,624	( <sup>2</sup> )	678	5,239	21,991
3263	Earthenware, food utensils....	19	9	1,264	4,459	1,067	1,793	3,379	6,923	8,522	108	2,538	11,040
327	Concrete and plaster products	325	63	6,868	30,536	5,212	10,712	20,988	61,381	( <sup>2</sup> )	6,232	5,958	32,495
3271	Concrete products.....	299	45	4,499	19,758	3,319	6,644	12,951	32,446	57,551	4,294	4,620	22,542
3281	Cut-stone and stone products.	42	4	301	1,172	248	475	901	1,814	2,996	98	200	893
329	Nonmetallic mineral products, n.e.c.....	130	38	3,712	17,205	2,887	5,879	12,162	40,195	( <sup>2</sup> )	5,933	(D)	(D)
3291	Abrasive products.....	23	4	269	1,145	198	387	720	2,362	4,848	263	(D)	(D)
3293	Gaskets & asbestos insulations.	22	8	557	2,481	411	824	1,608	4,522	7,856	265	423	2,502
3295	Minerals: ground or treated...	32	7	748	3,506	615	1,202	2,502	9,510	14,966	552	1,050	8,420

See footnotes at end of table.

## MANUFACTURES—AREA STATISTICS

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establish- ments, number		All employees		Production workers			Value added by manufacture	Value of shipments	Capital expendi- tures, new	All employees, number	Value added by manufacture
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
33	Primary metal industries...	555	231	38,919	179,450	32,402	64,792	138,935	355,083	( <sup>2</sup> )	29,755	33,078	184,581
331	Blast furnaces and steel mills.....	13	13	12,255	58,760	10,290	19,464	45,964	141,013	( <sup>2</sup> )	18,358	11,205	66,085
3312	Blast furnaces and steel mills..	13	13	12,255	58,760	10,290	19,464	45,964	141,013	( <sup>2</sup> )	18,358	10,866	(D)
332	Iron and steel foundries.....	112	77	8,096	35,723	7,071	14,106	29,278	53,244	( <sup>2</sup> )	1,937	8,743	39,895
3321	Gray-iron foundries.....	83	55	4,872	21,205	4,265	8,421	17,396	33,070	52,264	1,269	6,176	28,907
3341	Secondary nonferrous metals..	32	14	1,329	5,992	971	2,036	3,821	14,212	55,571	(D)	1,342	11,434
335	Nonferrous rolling and drawing.....	19	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3352	Aluminum rolling and drawing...	13	6	4,422	21,336	3,665	8,246	16,764	42,413	70,100	1,986	934	(D)
3361	Nonferrous foundries.....	246	65	6,085	26,210	5,204	10,391	20,478	43,093	73,326	2,154	4,439	24,135
339	Primary metal industries, nec	130	50	5,384	25,155	4,147	8,420	18,011	50,115	( <sup>2</sup> )	(D)	5,261	27,558
3391	Iron and steel forgings.....	24	13	853	4,199	660	1,259	3,078	8,608	17,249	346	781	4,322
3393	Wire drawing.....	21	9	1,782	8,419	1,433	2,910	6,194	17,546	41,630	614	3,338	15,993
34	Fabricated metal products..	2,493	641	72,131	328,080	57,288	113,760	234,963	578,995	( <sup>2</sup> )	37,416	51,935	282,756
3411	Tin cans and other tinware...	38	27	7,353	33,455	6,416	12,809	27,955	69,609	217,139	11,976	5,238	30,823
342	Cutlery, tools, and hardware	222	55	7,110	31,382	5,491	11,408	21,099	58,733	( <sup>2</sup> )	2,497	4,155	24,041
3422	Edge tools.....	22	2	184	668	160	259	467	1,341	1,784	31	129	695
3423	Hand tools, n.e.c.....	59	7	944	4,195	623	1,183	2,223	8,291	11,078	525	1,399	8,333
3429	Hardware, n.e.c.....	125	42	5,796	25,827	4,549	9,682	17,940	47,840	76,400	1,828	2,503	14,465
343	Heating and plumbing equip- ment.....	163	71	9,934	45,322	7,887	15,058	31,501	88,496	( <sup>2</sup> )	3,811	11,290	66,589
3431	Plumbing fixtures and fittings.	53	22	3,070	13,572	2,710	5,349	11,025	28,347	51,900	1,346	2,827	(D)
3439	Heating & cooking equip., nec..	110	49	6,863	31,750	5,176	9,708	20,475	60,149	121,739	2,465	8,463	(D)
344	Structural metal products....	738	203	22,148	107,433	16,820	33,001	74,176	169,914	( <sup>2</sup> )	7,559	14,916	81,110
3441	Structural and ornamental work.	262	80	8,611	41,287	6,432	12,684	28,225	60,465	125,320	2,708	5,742	30,682
3442	Metal doors, sash, and trim....	91	34	2,354	11,194	1,589	3,068	6,502	18,293	34,205	815	1,043	6,621
3443	Boiler shop products.....	92	41	7,048	35,318	5,523	10,803	25,192	57,375	113,824	2,152	4,402	21,723
3444	Sheet-metal work.....	293	48	4,133	19,633	3,275	6,445	14,256	33,779	59,795	1,882	3,729	22,084
346	Metal stamping and coating...	649	127	9,853	41,946	8,144	16,323	31,390	72,232	( <sup>2</sup> )	3,470	6,849	33,238
3463	Metal stamping.....	209	53	4,447	20,359	3,614	7,339	15,029	36,929	65,328	1,331	3,809	18,884
3465	Enameling and lacquering.....	52	9	574	2,275	458	907	1,663	3,720	5,194	96	317	(D)
3466	Galvanizing.....	19	6	282	1,322	231	481	941	2,256	3,410	164	305	1,982
3468	Plating and polishing.....	334	53	4,096	16,187	3,470	6,829	12,465	26,493	34,913	1,778	2,087	9,462
3471	Lighting fixtures.....	157	41	3,061	12,439	2,400	4,756	8,125	23,481	45,718	726	2,254	13,068
348	Fabricated wire products.....	159	41	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3489	Wirework, n.e.c.....	151	39	3,852	16,336	3,135	6,195	12,070	26,336	50,741	1,793	3,313	15,048
349	Metal products, n.e.c.....	367	76	8,727	39,429	6,916	14,074	28,397	69,627	( <sup>2</sup> )	5,571	3,877	18,603
3493	Steel springs.....	14	2	307	1,325	204	429	798	1,488	2,723	(D)	406	1,370
3494	Bolts, nuts, washers, & rivets.	48	23	2,160	10,487	1,630	3,381	7,077	19,266	34,618	1,418	755	4,636
3495	Screw machine products.....	164	31	2,471	11,324	2,058	4,179	8,442	18,398	27,300	698	1,103	5,379
3499	Fabricated metal prod., n.e.c..	122	11	1,613	6,299	1,359	2,741	4,948	13,202	21,155	603	456	(D)
35	Machinery, except electri- cal.....	2,980	589	68,448	328,610	51,176	104,331	223,550	580,306	( <sup>2</sup> )	25,410	52,489	248,817
352	Tractors and farm machinery..	180	30	2,921	12,403	2,130	4,227	8,095	21,929	( <sup>2</sup> )	816	3,633	14,432
3521	Tractors.....	13	1	109	498	87	174	325	881	2,384	52	358	2,162
3522	Farm machinery (exc. tractors).	167	29	2,812	11,904	2,043	4,053	7,769	21,047	37,928	763	3,275	12,270
353	Construction and mining ma- chinery.....	133	52	7,892	40,194	5,461	11,153	24,199	68,889	( <sup>2</sup> )	3,006	7,960	54,002
3531	Construction & mining machinery	71	24	2,534	12,371	1,825	3,692	8,224	20,998	36,360	902	2,655	15,232
3532	Oil-field machinery and tools..	62	28	5,358	27,823	3,635	7,461	15,975	47,891	71,535	2,103	5,305	38,770
354	Metalworking machinery.....	470	79	7,551	40,229	6,048	12,707	30,221	66,380	( <sup>2</sup> )	3,603	2,612	13,999
3541	Machine tools.....	56	5	729	3,278	621	1,125	2,412	5,287	7,599	(D)	138	723
3542	Metalworking machinery.....	53	16	1,580	7,543	1,096	2,194	4,961	12,548	19,259	(D)	1,173	6,149
3544	Special dies and tools.....	283	50	4,473	25,874	3,715	8,040	20,171	42,226	53,307	1,986		
3545	Metalworking mach. attachments.	78	8	768	3,533	615	1,346	2,675	6,317	8,428	317	1,301	7,127
355	Special-industry machinery, n.e.c.....	259	62	6,895	32,162	4,928	9,546	20,920	53,386	( <sup>2</sup> )	2,616	7,505	38,602
3551	Food-products machinery.....	112	33	2,547	11,988	1,741	3,352	7,373	19,312	31,847	1,224	3,827	21,921
3553	Woodworking machinery.....	34	8	2,220	10,016	1,658	3,135	6,557	15,748	29,223	672	678	3,660
3555	Printing-trades machinery.....	25	5	333	1,826	199	423	1,053	2,783	3,720	166	190	(D)
3559	Special-industry machinery, nec	78	14	1,719	8,044	1,271	2,525	5,709	14,947	22,764	532	2,740	11,385
356	General industrial machinery.	299	111	12,918	62,103	8,878	18,026	38,004	115,427	( <sup>2</sup> )	4,138	9,592	55,979
3562	Elevators and escalators.....	17	6	344	1,699	241	461	1,016	2,989	4,949	51	341	2,251
3563	Conveyors.....	28	14	1,367	7,240	908	1,816	4,137	12,966	24,689	456	763	4,656
3564	Blowers and fans.....	27	14	1,432	6,744	1,052	2,109	4,314	11,376	20,107	496	701	4,200
3565	Industrial trucks and tractors.	27	7	646	2,867	497	1,031	1,996	5,462	11,721	177	226	978
3566	Power-transmission equipment...	49	21	1,736	8,201	1,276	2,632	5,579	14,498	22,286	812	1,295	6,565

See footnotes at end of table.



Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954										1947	
		Establish- ments, number		All employees		Production workers			Value added by manufacture	Value of shipments	Capital expendi- tures, new	All employees, number	Value added by manufacture
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
	Machinery, except electri- cal—Continued												
357	Office and store machines....	45	14	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3579	Office and store machines, nec.	21	5	251	983	193	332	567	2,009	3,216	74	196	1,070
358	Service and household ma- chines.....	118	34	5,372	24,038	3,871	7,754	15,786	40,840	( <sup>2</sup> )	1,242	4,656	23,165
3585	Refrigeration machinery.....	60	22	3,665	16,122	2,764	5,435	11,175	26,847	( <sup>2</sup> )	578	4,026	19,771
359	Miscellaneous machinery parts	1,460	201	18,483	88,342	15,056	31,690	66,713	158,805	( <sup>2</sup> )	7,597	8,646	48,616
3591	Valves & fittings, exc. plbg...	86	38	4,123	20,394	3,139	6,740	13,829	42,949	74,963	1,476	3,864	21,265
3594	Industrial patterns and molds..	202	9	1,281	6,359	1,086	2,238	5,117	10,536	13,446	438	(D)	(D)
3599	Machine shops.....	1,131	137	12,060	56,512	10,068	21,092	44,335	96,938	138,634	5,156	3,544	19,691
36	Electrical machinery.....	729	273	52,727	223,481	37,513	76,772	148,755	409,623	( <sup>2</sup> )	19,764	17,622	106,603
361	Electrical industrial appa- ratus.....	257	113	18,744	88,378	13,839	28,527	58,953	156,522	( <sup>2</sup> )	5,672	8,374	48,347
3611	Wiring devices and supplies....	32	15	3,041	13,742	2,400	4,896	9,826	21,126	38,020	1,251	1,332	(D)
3613	Elec. measuring instruments....	52	20	3,010	14,817	2,269	4,420	9,778	22,620	36,298	1,481	267	1,748
3616	Electrical control apparatus....	57	31	4,247	19,085	3,304	6,739	13,249	34,059	60,218	1,086	2,119	12,954
3621	Electrical appliances.....	27	6	1,754	8,408	1,433	3,024	6,381	29,488	43,646	967	2,147	12,684
3641	Engine electrical equipment..	17	8	839	3,226	695	1,458	2,285	5,134	8,997	113	77	(D)
366	Communication equipment.....	317	117	28,892	113,011	19,601	39,924	73,938	197,497	( <sup>2</sup> )	9,705	5,108	30,886
3661	Radios and related products....	238	92	24,808	94,524	16,586	34,032	62,207	166,754	( <sup>2</sup> )	7,194	3,230	16,534
3664	Telephone and telegraph equip..	5	2	970	4,678	675	1,404	2,642	7,671	11,385	49	192	(D)
369	Electrical products, n.e.c....	101	24	1,838	7,617	1,411	2,814	5,128	13,462	( <sup>2</sup> )	3,018	1,320	10,460
3699	Communication equipment.....	25	5	336	1,189	282	575	860	1,967	4,000	56	72	(D)
37	Transportation equipment...	1,047	402	272,843	1,383,046	197,540	410,364	904,092	2,163,882	( <sup>2</sup> )	55,516	112,230	553,686
371	Motor vehicles.....	339	118	25,577	121,792	20,796	42,241	91,720	246,436	( <sup>2</sup> )	12,866	16,417	126,308
3713	Truck and bus bodies.....	62	18	1,117	5,021	859	1,701	3,484	7,835	16,566	312	1,315	7,916
3715	Truck trailers.....	22	9	1,620	7,929	1,317	2,627	6,003	15,412	33,215	298	1,305	10,839
3716	Automobile trailers.....	69	25	1,828	7,550	1,590	2,948	5,559	11,637	37,603	229	1,691	10,076
3717	Motor vehicles and parts.....	186	66	21,010	101,292	17,028	34,964	76,672	211,550	( <sup>2</sup> )	12,025	12,106	97,477
372	Aircraft and parts.....	542	231	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3722	Aircraft engines.....	22	12	4,246	22,148	2,876	6,304	13,226	35,337	53,153	977	1,809	11,185
3729	Aircraft equipment, n.e.c.....	495	194	48,728	252,564	38,383	83,523	185,527	393,819	631,971	10,328	8,400	42,303
373	Ships and boats.....	148	47	12,522	57,941	10,992	20,734	48,698	84,788	( <sup>2</sup> )	1,836	18,289	73,194
3731	Ship building and repairing....	38	30	11,077	52,139	9,744	18,428	44,081	75,734	105,194	1,402	17,042	67,147
3732	Boat building and repairing....	110	17	1,445	5,802	1,248	2,305	4,617	9,054	16,727	434	1,247	6,047
3799	Transportation equip., n.e.c.	14	5	305	1,307	252	553	927	2,208	4,898	115	149	(D)
38	Instruments and related products.....	388	90	13,381	62,190	9,516	19,163	39,930	111,243	( <sup>2</sup> )	8,443	6,776	(D)
3811	Scientific instruments.....	70	22	3,154	15,158	2,344	4,645	9,720	27,261	40,163	818	(D)	(D)
3821	Mech. measuring instruments..	66	28	6,021	28,027	4,160	8,381	18,407	50,777	76,053	4,653	3,173	13,167
3831	Optical instruments & lenses.	33	10	1,372	6,517	1,035	2,128	4,381	9,728	15,901	1,579	185	(D)
384	Medical equipment and sup- plies.....	118	11	1,097	4,707	759	1,469	2,575	9,513	( <sup>2</sup> )	833	668	3,545
3842	Surgical appliances & supplies.	73	8	808	3,454	556	1,088	1,905	6,905	11,403	766	468	1,964
3861	Photographic equipment.....	79	17	1,600	7,316	1,116	2,351	4,534	13,113	22,928	(D)	1,229	5,980
39	Miscellaneous manufactures <sup>5</sup>	1,453	283	45,077	194,506	33,897	65,846	131,869	334,304	( <sup>2</sup> )	9,711	13,009	62,041
391	Jewelry and silverware.....	115	12	954	4,032	785	1,472	2,925	6,967	( <sup>2</sup> )	84	1,026	5,737
3911	Jewelry (precious metal).....	87	9	712	3,018	586	1,080	2,188	5,633	8,999	32	580	3,660
3914	Silverware and plated ware....	10	3	197	862	158	319	630	1,157	1,722	(D)	365	1,607
393	Musical instruments and parts	15	4	341	1,426	298	600	1,150	2,263	( <sup>2</sup> )	177	314	1,226
394	Toys and sporting goods.....	263	41	4,340	14,004	3,537	6,668	9,729	24,731	( <sup>2</sup> )	1,284	2,049	7,608
3941	Games and toys, n.e.c.....	95	19	2,041	6,513	1,620	3,113	4,564	10,859	25,578	604	798	3,273
3949	Sporting and athletic goods....	133	15	1,553	5,089	1,272	2,370	3,360	10,204	18,254	558	739	2,614
395	Office supplies.....	82	17	1,431	5,674	1,145	2,480	3,919	11,284	( <sup>2</sup> )	529	572	3,337
3951	Pens and mechanical pencils....	17	6	689	2,726	590	1,391	2,093	6,532	10,746	271	199	1,342
3952	Lead pencils and crayons.....	5	2	136	531	113	215	392	1,226	1,893	70	(D)	(D)
396	Costume jewelry and notions..	77	8	714	1,989	636	1,152	1,587	3,391	( <sup>2</sup> )	54	589	2,252
3961	Costume jewelry.....	39	6	457	1,298	407	751	1,056	2,351	3,677	39	234	868
3962	Artificial flowers.....	20	1	130	297	121	193	238	560	996	(D)	75	(D)
3971	Plastics products, n.e.c.....	300	82	6,235	24,908	5,003	9,626	16,838	42,292	80,470	2,608	2,721	13,815

See footnotes at end of table.

## MANUFACTURES—AREA STATISTICS

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry	1954										1947	
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
	Miscellaneous manufactures—Continued												
398 399	Miscellaneous manufactures <sup>5</sup> ..	601	119	31,059	142,470	22,490	43,845	95,717	243,372	( <sup>2</sup> )	4,972	5,738	28,066
3981	Brooms and brushes.....	50	7	529	1,793	411	766	1,203	3,785	7,553	60	459	2,134
3985	Fireworks and pyrotechnics.....	8	3	417	1,330	361	661	1,007	2,600	4,414	60	(D)	(D)
3987	Lamp shades.....	31	7	379	902	325	572	665	1,756	2,936	(D)	(D)	(D)
3988	Morticians' goods.....	43	14	773	3,260	621	1,276	2,326	5,108	10,589	64	740	4,074
3991	Beauty and barber-shop equip...	11	3	123	417	92	169	232	1,552	2,717	12	(D)	(D)
3993	Signs and advertising displays.	243	33	3,047	13,678	2,215	4,246	8,798	23,073	34,696	758	2,285	11,167
3999	Miscellaneous products, n.e.c..	101	13	946	3,517	776	1,534	2,459	6,727	13,125	187	1,056	5,422
1900	Ordinance and accessories.....	50	30	24,057	115,207	17,014	33,364	77,159	194,323	( <sup>2</sup> )	3,648	(D)	(D)

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industries (4-digit) and industry groups (3-digit) are not shown. Industries and industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "all industries" line.

<sup>2</sup>The total value of shipments figures for industry groups and a few individual industries have not been published due to the extensive and unmeasurable duplication arising from shipments from one establishment to another in the same industry classification. (See Introduction.)

<sup>3</sup>The 1954 and 1947 "all industries" totals are not strictly comparable because of differences in scope between the two years in Major groups 20 and 24 (see footnote 4).

<sup>4</sup>Comparable data for Major groups 20 and 24 are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude establishments in S.I.C. Industry 2411, Logging Camps and Contractors, which are included in the scope of the 1954 Census; the 1947 Census also excludes plants processing and distributing fluid milk which in 1954 were classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
20	Food and kindred products except subgroup 202, Dairy products.....	125,000	1,229,000	115,956	819,687
24	Lumber and wood products except Industry 2411, Logging camps and contractors.....	49,823	373,844	38,484	226,233

<sup>5</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordinance and Accessories." (Establishments which are Government-owned and operated are not included.)



Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947

(For explanation of column captions see Introduction)

Code	Industry group	Establish- ments, number	1954							1947	
			All employees		Production workers			Value added by manufacture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
			Numero	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
LOS ANGELES-LONG BEACH STANDARD METROPOLITAN AREA (Consists of Los Angeles and Orange Counties, California)											
	All industries, total <sup>1</sup> ...	14,400	639,802	2,936,808	470,732	944,148	1,930,520	5,041,546	305,165	<sup>2</sup> 358,772	<sup>2</sup> 2,052,671
20	Food and kindred products...	992	50,129	223,271	32,021	62,621	120,827	442,431	48,926	( <sup>3</sup> )	( <sup>3</sup> )
201	Meat products.....	142	8,586	39,572	6,349	12,999	26,346	60,528	3,369	7,322	31,974
202	Dairy products.....	130	7,595	36,117	3,082	6,350	13,261	76,534	2,778	( <sup>3</sup> )	( <sup>3</sup> )
203	Canned and frozen foods.....	124	7,132	25,135	6,155	10,904	18,610	52,088	1,662	7,299	48,321
204	Grain mill products.....	77	2,647	12,608	1,655	3,416	6,757	28,832	1,257	2,400	18,077
205	Bakery products.....	140	11,337	53,166	6,661	12,988	25,777	86,546	2,814	8,139	49,970
208	Beverages.....	63	5,162	26,457	2,681	5,393	12,928	65,282	32,451	3,309	33,706
209	Miscellaneous foods.....	242	5,261	22,416	3,405	6,605	11,461	58,350	4,100	5,092	44,786
21	Tobacco manufactures.....	9	265	(D)	215	(D)	(D)	(D)	(D)	380	(D)
22	Textile mill products.....	150	3,599	13,029	3,037	6,060	9,631	26,570	1,210	3,189	18,147
229	Miscellaneous textile goods....	33	1,148	4,877	953	2,054	3,557	10,525	706	772	4,929
23	Apparel & related products..	1,653	43,161	129,597	38,282	68,201	101,382	207,257	3,678	32,964	144,860
231	Men's and boys' suits and coats	54	2,841	9,650	2,568	4,470	7,887	13,244	93	2,649	10,881
232	Men's and boys' furnishings....	208	7,247	19,792	6,586	11,734	16,180	29,841	568	4,979	18,675
233	Women's and misses' outerwear..	670	19,522	61,063	17,412	30,683	48,066	101,953	1,154	15,516	72,348
236	Children's outerwear.....	105	2,467	6,291	2,237	3,817	5,365	10,135	120	1,257	4,719
238	Miscellaneous apparel.....	74	1,607	5,294	1,368	2,553	3,826	8,306	106	1,400	6,399
239	Fabricated textiles.....	381	5,677	16,155	4,843	8,976	12,017	24,804	1,087	3,799	17,573
24	Lumber and wood products....	511	6,893	27,830	5,855	11,506	21,559	45,067	1,876	4,625	24,768
242	Lumber and basic products.....	56	537	2,233	462	898	1,696	3,336	298	881	4,429
243	Millwork and related products..	248	3,785	16,780	3,164	6,224	12,839	26,056	851	2,177	11,488
244	Wooden containers.....	44	725	2,587	630	1,183	2,079	4,521	235	660	3,614
249	Miscellaneous wood products....	160	1,830	6,185	1,585	3,178	4,904	10,960	484	907	5,237
25	Furniture and fixtures.....	925	16,481	67,055	13,789	26,743	50,031	112,538	2,355	13,504	67,376
251	Household furniture.....	643	12,938	51,920	10,870	21,128	39,239	86,203	1,756	10,242	49,408
252	Office furniture.....	21	411	1,606	341	670	1,236	2,778	77	206	1,071
253	Public & professional furniture	29	639	3,015	534	1,077	2,025	5,235	146	304	1,463
254	Partitions and fixtures.....	104	1,292	6,174	1,078	2,095	4,496	10,745	205	1,423	8,651
256	Screens, shades, and blinds....	105	952	3,287	753	1,373	2,216	6,188	139	1,051	5,317
259	Furniture and fixtures, n.e.c..	23	246	1,051	210	398	817	1,387	30	278	1,466
26	Pulp, paper and products....	208	11,227	47,972	8,954	18,300	35,577	92,821	8,613	6,508	42,858
265	Envelopes.....	11	470	1,978	383	760	1,432	3,829	190	379	1,983
266	Paper bags.....	24	1,350	5,297	1,030	2,066	3,560	9,815	1,715	(D)	(D)
267	Paperboard containers.....	75	4,269	18,732	3,445	7,099	14,080	29,831	2,942	(D)	(D)
269	Pulp, paper & products, n.e.c..	77	3,172	12,617	2,508	4,994	9,086	25,665	(D)	1,338	8,235
27	Printing and publishing.....	1,379	26,894	124,708	15,713	28,895	70,515	203,282	8,286	20,093	121,544
271	Newspapers.....	179	11,574	56,561	4,901	8,989	24,883	90,730	2,569	8,518	54,794
272	Periodicals.....	108	933	4,159	179	347	924	9,102	189	922	8,519
273	Books.....	45	374	1,521	174	332	752	2,579	153	117	718
274	Miscellaneous publishing.....	65	663	2,175	236	321	713	3,575	64	(D)	(D)
275	Commercial printing.....	560	6,531	28,908	5,180	9,266	21,769	45,556	2,718	5,652	31,290
276	Lithographing.....	192	2,457	11,625	1,773	3,372	7,496	19,707	1,412	971	5,470
277	Greeting cards.....	14	585	2,330	360	743	1,238	4,201	177	459	2,067
278	Bookbinding & related indus....	66	2,222	9,027	1,716	3,233	6,116	14,758	549	1,783	7,547
279	Printing trade services.....	150	1,552	8,399	1,190	2,288	6,622	13,070	452	1,273	8,405
28	Chemicals and products.....	672	16,200	74,859	10,377	20,380	39,759	211,977	15,053	12,108	120,905
281	Inorganic chemicals.....	24	1,791	8,501	1,407	2,725	6,287	26,616	6,952	(D)	(D)
282	Organic chemicals.....	37	1,636	8,107	1,138	2,287	5,101	28,818	2,317	1,227	17,735
283	Drugs and medicines.....	95	2,105	9,788	1,412	2,819	4,521	24,024	1,035	1,330	7,174
284	Soap and related products.....	114	2,701	13,165	1,482	2,894	5,996	48,863	1,002	1,818	27,848
285	Paints and allied products....	139	3,081	13,770	1,825	3,488	6,929	34,984	1,169	2,388	21,975
287	Fertilizers.....	26	478	1,921	237	537	837	2,172	227	555	3,071
288	Vegetable and animal oils.....	25	954	5,001	690	1,527	2,946	11,397	664	1,064	14,790
289	Chemical products, n.e.c.....	212	3,451	14,603	2,184	4,102	7,139	35,101	1,684	2,448	19,110
29	Petroleum and coal products.	82	11,483	60,141	8,073	16,274	38,793	127,059	61,948	10,925	135,802
291	Petroleum refining.....	32	9,943	52,694	6,925	13,992	34,016	110,004	(D)	9,398	119,020
295	Paving and roofing materials...	25	1,153	5,584	868	1,763	3,630	11,905	429	1,238	11,964
299	Petroleum & coal products, nec.	25	386	1,862	280	519	1,146	5,149	188	289	4,818
30	Rubber products.....	141	14,750	66,771	12,059	23,469	51,258	122,278	14,095	13,070	71,222
309	Rubber industries, n.e.c.....	131	5,176	20,653	4,065	7,764	13,585	36,162	3,719	2,813	12,073
31	Leather and leather goods...	167	4,012	(D)	3,543	(D)	(D)	(D)	(D)	3,737	(D)
314	Footwear, except rubber.....	46	2,367	7,796	2,119	3,900	6,106	11,379	176	2,355	9,194
315	Leather gloves.....	8	155	396	124	208	289	553	2	101	305
316	Luggage.....	25	438	1,483	383	767	1,197	2,464	116	624	2,739
317	Purses & small leather goods...	37	603	1,851	538	1,026	1,498	3,321	85	262	1,054
319	Miscellaneous leather goods....	31	198	586	171	349	417	1,001	16	152	599

See footnotes at end of table.

Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Code	Industry group	Establish- ments, number	1954							1947	
			All employees		Production workers			Value added by manufacture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
32	Stone, clay, & glass prod...	590	18,621	76,187	15,456	30,302	58,053	146,578	12,271	13,345	66,078
322	Pressed and blown glass.....	25	3,071	13,709	2,714	5,350	11,350	26,693	2,695	2,803	14,499
323	Products of purchased glass....	47	791	2,537	663	1,193	2,049	3,874	101	573	2,639
325	Structural clay products.....	33	3,850	16,006	3,153	6,223	12,312	29,629	2,229	(D)	(D)
326	Pottery and related products...	275	4,590	14,004	4,105	7,446	11,534	25,645	523	4,442	17,254
327	Concrete and plaster products..	111	3,037	14,676	2,282	4,748	9,788	26,294	3,744	2,243	13,143
329	Nonmetallic mineral prod., nec.	82	2,478	11,498	1,927	4,005	8,195	26,399	2,305	1,180	9,234
33	Primary metal industries....	371	20,717	94,822	17,143	35,091	72,401	177,157	10,006	17,007	89,924
331	Blast furnaces and steel mills.	5	2,851	14,030	2,275	4,427	10,391	32,747	1,487	(NA)	(NA)
332	Iron and steel foundries.....	61	4,978	22,041	4,355	8,889	17,989	32,441	1,192	4,725	21,382
334	Secondary nonferrous metals....	20	865	4,056	646	1,372	2,554	9,838	(D)	881	7,460
336	Nonferrous foundries.....	189	5,249	22,468	4,467	8,906	17,393	37,506	1,796	3,553	20,219
339	Primary metal industries, nec..	79	2,979	13,733	2,239	4,548	9,653	26,852	(D)	3,452	17,041
34	Fabricated metal products...	1,746	48,409	219,293	38,480	76,914	155,522	380,786	21,211	32,566	171,813
341	Tin cans and other tinware....	12	2,467	11,511	2,142	4,324	9,533	18,763	4,413	...	...
342	Cutlery, tools, and hardware....	159	5,162	22,975	3,939	8,154	14,767	40,376	1,934	(D)	(D)
343	Heating and plumbing equipment.	108	6,962	31,853	5,445	10,423	21,053	62,391	3,190	1,543	9,921
344	Structural metal products.....	437	13,523	65,295	10,454	20,810	46,535	106,802	4,301	7,701	40,735
346	Metal stamping and coating....	514	8,005	33,871	6,674	13,394	25,572	58,360	2,686	5,755	27,598
347	Lighting fixtures.....	121	2,486	10,082	1,932	3,827	6,465	18,881	532	2,049	11,714
348	Fabricated wire products.....	111	3,070	13,185	2,560	5,133	9,855	21,371	1,221	1,867	9,736
349	Metal products, n.e.c.....	284	6,729	30,519	5,330	10,847	21,739	53,838	2,932	2,675	11,910
35	Machinery, exc. electrical...	2,132	47,278	230,566	35,516	73,245	155,580	407,984	18,103	31,179	173,207
352	Tractors and farm machinery...	66	1,046	4,671	788	1,608	3,053	9,006	211	1,649	7,345
353	Construction & mining machinery	92	6,684	34,540	4,618	9,475	20,506	60,172	2,736	6,602	45,312
354	Metalworking machinery.....	372	5,303	28,373	4,398	9,273	21,827	47,384	2,384	1,638	9,039
355	Special-industry machinery, nec	149	3,595	16,610	2,622	5,086	10,764	25,216	1,297	3,771	16,339
356	General industrial machinery...	186	9,290	44,584	6,334	12,903	26,808	84,931	3,234	6,673	39,676
358	Service and household machines.	89	4,329	19,748	3,009	6,018	12,495	34,096	992	3,924	19,574
359	Miscellaneous machinery parts..	1,139	15,079	76,208	12,355	26,246	54,894	131,402	6,162	5,242	28,736
36	Electrical machinery.....	550	38,741	156,149	27,278	56,388	103,734	259,827	14,209	11,513	65,881
361	Electrical industrial apparatus	192	12,511	57,120	9,448	19,779	38,206	86,916	3,235	5,425	26,604
362	Electrical appliances.....	20	720	3,037	585	1,214	2,225	7,760	264	716	4,578
366	Communication equipment.....	243	23,432	86,974	15,674	32,216	57,520	149,414	8,068	4,069	25,945
369	Electrical products, n.e.c.....	75	1,456	6,148	1,100	2,222	3,972	10,615	2,424	962	7,095
37	Transportation equipment....	830	213,148	1,097,386	149,860	313,562	694,225	1,794,182	46,927	79,420	403,697
371	Motor vehicles & equipment.....	252	18,584	89,565	15,173	31,076	67,249	186,229	10,736	10,560	80,574
372	Aircraft and parts.....	497	190,365	989,180	130,992	275,615	611,425	1,579,499	35,666	65,551	306,950
373	Ships and boats.....	69	3,911	17,471	3,450	6,346	14,667	26,424	453	2,794	14,218
38	Instruments & related prod...	287	11,650	54,875	8,288	16,973	35,537	96,264	7,505	5,789	25,564
381	Scientific instruments.....	49	2,555	12,545	1,854	3,797	7,752	21,168	681	1,322	5,764
382	Mech. measuring instruments....	49	5,499	25,716	3,799	7,772	17,170	46,765	4,571	2,624	10,845
383	Optical instruments and lenses.	29	1,332	6,364	1,005	2,062	4,272	9,535	1,555	172	492
384	Surgical & medical instruments.	74	753	3,400	529	1,030	1,886	7,020	(D)	437	2,492
385	Ophthalmic goods.....	12	102	366	73	139	242	522	21	...	...
386	Photographic equipment.....	71	1,391	6,439	1,015	2,147	4,181	11,059	(D)	1,170	5,831
39	Miscellaneous manufactures <sup>4</sup> .	1,005	36,136	158,555	26,785	52,217	105,466	266,129	8,420	9,220	42,994
391	Jewelry and silverware.....	82	734	3,063	609	1,152	2,163	5,420	72	852	4,510
393	Musical instruments and parts...	12	322	1,374	282	568	1,102	2,163	176	(D)	(D)
394	Toys and sporting goods.....	187	3,685	12,173	2,991	5,762	8,399	21,472	1,193	1,417	5,234
395	Office supplies.....	56	1,163	4,597	951	2,084	3,325	9,588	439	411	2,524
396	Costume jewelry and notions....	55	538	1,589	476	894	1,266	2,775	48	474	1,991
397	Plastics products, n.e.c.....	243	5,363	21,288	4,323	8,316	14,491	35,534	2,224	2,509	12,630
398	Miscellaneous manufactures.....	370	24,330	114,469	17,150	33,437	74,716	189,175	4,266	3,281	15,008
SAN DIEGO STANDARD METROPOLITAN AREA (Consists of San Diego County, California)											
20	All industries, total <sup>1</sup> ...	595	47,731	221,656	37,310	74,405	156,997	390,218	7,986	<sup>2</sup> 20,783	<sup>2</sup> 101,548
201	Food and kindred products...	108	4,479	18,348	3,019	5,313	10,601	41,950	1,378	( <sup>3</sup> )	( <sup>3</sup> )
202	Meat products.....	17	595	2,444	478	998	1,842	3,187	115	374	2,254
203	Dairy products.....	20	957	4,192	428	816	1,671	9,237	327	( <sup>3</sup> )	( <sup>3</sup> )
204	Canned and frozen foods.....	9	1,591	5,302	1,445	2,184	4,480	15,779	425	2,516	18,251
205	Grain mill products.....	4	107	486	70	168	301	3,271	57	(D)	(D)
206	Bakery products.....	18	752	3,855	370	754	1,635	6,531	140	595	3,463
208	Beverages.....	12	263	1,260	88	157	320	2,499	147	455	3,874
209	Miscellaneous foods.....	22	193	771	120	202	314	1,344	165	350	1,753
23	Apparel & related products...	29	870	2,359	786	1,441	1,840	3,666	69	451	2,077
232	Men's and boys' furnishings....	8	588	1,734	535	1,010	1,347	2,581	31	(D)	(D)
239	Fabricated textiles, n.e.c.....	14	120	274	97	184	177	491	28	(D)	(D)
24	Lumber and wood products....	33	176	691	144	291	561	1,207	61	235	1,372
243	Millwork and related products..	22	122	514	95	194	386	920	45	170	907

See footnotes at end of table.



Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Code	Industry group	Establish- ments, number	1954							1947	
			All employees		Production workers			Value added by manufacture	Capital expendi- tures, new	All employees, number	Value added by manufacture
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
25	Furniture and fixtures.....	42	403	1,657	331	653	1,259	2,357	329	217	965
251	Household furniture.....	25	235	928	205	404	741	1,387	209	(D)	(D)
254	Partitions and fixtures.....	12	128	591	98	198	425	784	113	104	418
26	Pulp, paper and products....	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	46	(D)
27	Printing and publishing.....	99	1,677	7,998	922	1,681	4,257	15,812	618	1,392	8,092
271	Newspapers.....	33	1,182	5,853	558	1,029	2,699	12,432	398	941	5,671
275	Commercial printing.....	35	328	1,424	250	440	1,072	2,168	138	(D)	(D)
28	Chemicals and products.....	20	398	1,917	272	528	1,114	6,091	273	386	3,638
29	Petroleum and coal products..	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
30	Rubber products.....	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
31	Leather and leather goods...	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
32	Stone, clay, & glass prod...	30	252	999	203	391	773	1,903	56	450	2,373
327	Concrete and plaster products..	15	130	548	104	199	428	1,112	45	264	1,651
33	Primary metal industries....	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	68	(D)
34	Fabricated metal products...	52	537	2,147	412	827	1,534	3,912	196	193	698
344	Structural metal products.....	26	320	1,305	229	462	874	2,224	84	(D)	(D)
346	Metal stamping and coating....	14	132	527	114	233	426	824	62	(D)	(D)
35	Machinery, exc. electrical..	54	415	1,788	344	698	1,396	3,407	134	114	412
359	Miscellaneous machinery parts..	29	221	1,029	187	370	802	1,888	79	(D)	(D)
36	Electrical machinery.....	20	366	1,099	329	654	930	1,679	50	23	66
37	Transportation equipment....	45	37,024	178,344	29,599	60,257	129,425	299,679	4,584	12,345	49,205
372	Aircraft and parts.....	25	35,391	170,875	28,160	57,439	123,045	291,428	3,933	(D)	(D)
373	Ships and boats.....	17	1,620	7,422	1,428	2,796	6,346	8,167	647	1,063	4,717
38	Instruments & related prod..	10	562	2,354	485	745	1,800	4,804	110	(D)	(D)
39	Miscellaneous manufactures <sup>4</sup> ..	36	414	1,501	349	706	1,162	3,052	84	380	1,659
398	Miscellaneous manufactures <sup>4</sup> ....	16	223	868	190	404	685	1,855	43	146	618
SAN FRANCISCO-OAKLAND STANDARD METROPOLITAN AREA (Consists of Alameda, Contra Costa, Marin, San Francisco, San Mateo, and Solano Counties, California)											
	All industries, total <sup>1</sup> ...	4,106	173,135	793,165	128,746	250,004	539,483	1,673,825	114,955	<sup>2</sup> 163,606	<sup>2</sup> 1,048,720
20	Food and kindred products...	618	34,827	152,785	23,683	47,278	94,171	399,609	25,286	( <sup>3</sup> )	( <sup>3</sup> )
201	Meat products.....	89	4,368	20,196	3,104	6,360	13,769	31,652	1,247	3,253	18,375
202	Dairy products.....	70	3,913	17,791	1,409	2,832	5,949	28,791	1,025	( <sup>3</sup> )	( <sup>3</sup> )
203	Canned and frozen foods.....	76	8,179	31,136	6,961	14,414	24,542	91,934	3,405	7,744	56,328
204	Grain mill products.....	32	1,706	7,472	1,321	2,643	5,329	29,979	545	1,258	12,477
205	Bakery products.....	107	5,265	24,006	3,086	5,962	12,024	45,658	2,266	5,184	33,485
208	Beverages.....	58	3,518	19,201	2,407	4,801	12,359	57,722	12,662	4,166	44,091
209	Miscellaneous foods.....	134	4,030	16,862	2,461	4,669	9,147	77,439	2,445	3,886	46,407
21	Tobacco manufactures.....	5	91	(D)	81	(D)	(D)	(D)	(D)	601	(D)
22	Textile mill products.....	29	1,380	5,573	1,138	2,191	4,134	10,217	731	1,918	13,033
225	Knitting mills.....	12	149	395	124	220	282	655	5	236	770
23	Apparel & related products..	396	8,757	26,075	7,459	12,522	18,527	57,360	825	8,480	38,021
232	Men's and boys' furnishings....	60	1,969	4,916	1,755	2,921	3,698	21,427	78	2,220	1,197
233	Women's and misses' outerwear..	175	3,955	11,783	3,357	5,373	8,458	21,002	279	(D)	(D)
236	Children's outerwear.....	24	281	660	253	413	561	1,235	12	(D)	(D)
239	Fabricated textiles, n.e.c.....	88	1,798	6,534	1,452	2,682	4,090	10,288	424	1,279	6,413
24	Lumber and wood products....	174	2,014	8,723	1,668	3,119	6,476	13,185	656	2,666	13,760
242	Lumber and basic products.....	35	456	2,090	378	697	1,408	3,029	196	(D)	(D)
243	Millwork and related products..	80	930	4,209	747	1,393	3,077	6,082	161	1,237	5,965
244	Wooden containers.....	12	134	533	116	222	441	832	20	554	2,204
249	Miscellaneous wood products....	41	433	1,769	380	756	1,453	2,972	139	346	2,593
25	Furniture and fixtures.....	240	4,501	18,505	3,665	6,858	13,866	32,583	839	4,313	21,238
251	Household furniture.....	130	3,189	12,682	2,644	4,887	9,699	22,990	446	2,965	13,982
253	Public & professional furniture	9	136	620	117	217	503	949	48	(D)	(D)
254	Partitions and fixtures.....	61	764	3,419	620	1,200	2,642	5,161	196	772	4,280
256	Window and door screens.....	28	335	1,493	216	417	791	3,047	135	481	2,490
26	Pulp, paper and products....	88	6,591	29,307	5,234	10,417	21,553	63,889	4,900	4,562	29,005
261	Pulp, paper and board.....	11	1,154	5,596	931	1,936	4,390	18,881	1,313	(D)	(D)
264	Paper, coating and glazing....	10	538	2,587	354	700	1,557	5,188	591	320	1,981
267	Paperboard containers.....	30	2,698	11,734	2,130	4,250	8,627	21,473	1,650	2,148	14,009
269	Pulp, paper and products, n.e.c.	23	1,137	4,886	980	1,851	3,797	10,473	(D)	(D)	(D)

See footnotes at end of table.

## MANUFACTURES—AREA STATISTICS

Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Code	Industry group	Establish- ments, number	1954						1947		
			All employees		Production workers			Value added by manufacture	Capital expendi- tures, new	All employees, number	Value added by manufacture
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
27	Printing and publishing.....	621	15,918	81,962	9,717	17,661	48,591	130,050	3,649	14,235	97,102
271	Newspapers.....	93	6,475	33,177	3,267	5,784	17,380	50,605	806	5,444	38,222
272	Periodicals.....	48	537	2,563	110	196	464	6,344	85	680	5,734
273	Books.....	21	280	1,534	62	117	246	3,248	78	(D)	(D)
274	Miscellaneous publishing.....	15	183	787	84	138	434	1,664	9	(D)	(D)
275	Commercial printing.....	257	3,339	16,619	2,623	4,833	12,569	27,850	1,040	4,105	25,295
276	Lithographing.....	81	4,012	21,794	2,711	5,031	13,438	31,469	1,356	2,455	17,485
279	Printing trade services.....	73	829	4,561	630	1,156	3,307	7,094	224	785	5,731
28	Chemicals and products.....	261	11,345	54,053	7,632	15,136	32,276	152,452	8,132	10,501	118,601
281	Inorganic chemicals.....	20	2,643	13,397	1,830	3,607	8,530	43,455	2,466	1,209	9,121
282	Organic chemicals.....	12	948	4,688	682	1,335	3,202	13,135	922	1,642	17,753
283	Drugs and medicines.....	24	964	4,430	592	1,158	2,030	7,974	282	(D)	(D)
284	Soap and related products.....	38	1,102	4,712	715	1,213	2,482	20,563	512	922	12,246
285	Paints and allied products.....	63	2,359	11,141	1,473	3,014	6,307	27,703	678	2,456	29,468
288	Vegetable and animal oils.....	14	620	3,469	443	985	2,144	5,162	471	726	19,406
289	Chemical products, n.e.c.....	82	2,519	11,483	1,787	3,587	7,246	33,132	2,726	2,224	19,558
29	Petroleum and coal products.....	22	7,692	40,613	5,546	10,924	25,960	128,946	42,659	9,439	58,381
291	Petroleum refining.....	5	6,971	37,164	4,975	9,783	23,445	119,428	(D)	8,641	50,685
295	Paving and roofing materials...	9	657	3,194	525	1,058	2,354	8,876	130	750	7,310
30	Rubber products.....	34	(D)	(D)	(D)	(D)	(D)	(D)	(D)	792	4,257
31	Leather and leather goods...	44	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1,685	7,584
311	Leather tanning and finishing..	6	445	1,946	403	842	1,623	2,900	148	430	2,692
316	Luggage.....	5	262	1,000	219	467	748	1,901	455	(D)	(D)
32	Stone, clay, & glass prod...	106	5,131	23,667	4,397	8,652	19,131	49,288	2,779	5,009	30,621
323	Products of purchased glass....	18	124	484	102	184	359	853	29	188	887
325	Structural clay products.....	10	572	2,476	468	934	1,847	3,841	384	663	2,977
326	Pottery and related products...	11	458	1,719	418	772	1,506	4,054	70	(D)	(D)
327	Concrete and plaster products..	24	442	2,006	343	726	1,523	3,856	439	523	3,095
329	Nonmetallic mineral prod., nec.	28	681	3,282	545	1,066	2,333	7,141	430	828	4,786
33	Primary metal industries....	111	11,438	54,473	9,332	18,053	41,580	103,831	3,647	11,152	60,820
332	Iron and steel foundries.....	29	2,322	10,774	2,040	3,966	8,960	16,815	599	(D)	(D)
336	Nonferrous foundries.....	35	649	2,955	569	1,154	2,447	4,414	319	618	2,921
339	Primary metal industries, nec..	29	1,280	6,286	942	1,905	4,220	13,018	(D)	1,331	7,353
34	Fabricated metal products...	432	17,851	83,642	14,098	27,721	61,312	144,474	8,596	15,417	87,181
341	Tin cans and other tinware....	10	3,179	14,517	2,801	5,638	12,438	26,741	3,864	2,174	12,576
342	Cutlery, tools, and hardware...	39	1,740	7,646	1,383	2,971	5,853	17,072	470	1,069	5,143
343	Heating & plumbing equipment...	41	2,707	12,385	2,229	4,199	9,592	23,815	547	2,775	17,573
344	Structural metal products.....	154	6,423	31,904	4,724	9,056	21,011	47,834	1,618	5,582	33,303
346	Metal stamping and coating....	83	1,121	5,124	903	1,791	3,772	8,689	504	(D)	(D)
347	Lighting fixtures.....	31	541	2,269	438	874	1,583	4,435	193	190	1,255
348	Fabricated wire products.....	24	719	3,002	523	963	2,099	4,671	458	1,445	5,413
349	Metal products, n.e.c.....	50	1,419	6,792	1,094	2,225	4,960	11,213	940	1,165	6,560
35	Machinery, exc. electrical..	399	13,851	66,266	10,169	20,053	45,402	121,839	4,410	13,961	75,353
351	Engines and turbines.....	7	1,118	5,253	778	1,545	3,468	16,228	180	3,220	12,306
352	Tractors and farm machinery....	13	240	998	188	347	718	1,785	(D)	(D)	(D)
353	Construction & mining machinery	11	480	2,309	307	602	1,347	3,027	154	681	3,179
354	Metalworking machinery.....	60	1,814	9,853	1,304	2,716	6,837	16,149	614	834	4,275
355	Special-industry machinery, nec	51	1,589	7,640	1,073	2,028	4,718	16,230	621	1,286	8,566
356	General industrial machinery...	70	2,829	14,147	1,983	3,968	8,994	24,868	602	2,236	12,844
357	Office and store machines.....	11	3,307	14,294	2,601	4,981	10,770	22,366	(D)	(D)	(D)
358	Service and household machines.	19	352	1,631	288	579	1,195	2,728	32	(D)	(D)
359	Miscellaneous machinery parts..	157	2,117	10,139	1,644	3,284	7,352	18,455	970	2,070	14,380
36	Electrical machinery.....	105	7,465	35,460	5,456	10,711	23,094	73,291	2,213	4,221	28,220
361	Electrical industrial apparatus	44	2,023	9,555	1,514	2,857	6,404	21,969	730	2,560	18,188
366	Communication equipment.....	41	4,451	21,636	3,138	6,307	13,508	40,917	1,040	(D)	(D)
369	Electrical products, nec.....	14	318	1,278	262	479	1,016	2,577	183	336	3,267
37	Transportation equipment....	110	15,752	74,993	12,883	25,547	58,126	126,650	3,139	19,829	98,062
371	Motor vehicles and equipment...	47	6,680	31,000	5,358	10,661	23,495	58,277	2,024	5,456	43,929
373	Ships and boats.....	49	6,417	30,511	5,593	10,572	25,478	46,990	637	14,272	53,732
38	Instruments & related prod...	58	1,001	4,376	618	1,216	2,212	9,023	237	953	(D)
381	Scientific instruments.....	10	134	625	93	186	359	1,447	31	(D)	(D)
382	Mech. measuring instruments....	11	396	1,836	255	497	996	3,640	47	(D)	(D)
384	Medical equipment & supplies...	26	250	987	163	314	491	1,738	(D)	221	998
386	Photographic equipment.....	5	191	815	85	171	297	1,996	(D)	(D)	(D)
39	Miscellaneous manufactures <sup>4</sup> ...	246	4,041	17,461	3,242	6,340	12,726	30,841	636	2,289	11,799
391	Jewelry and silverware.....	29	211	956	169	307	749	1,513	10	150	1,155
394	Toys and sporting goods.....	33	355	982	298	490	709	1,551	62	370	1,341
395	Office supplies.....	17	228	944	166	343	503	1,486	78	120	620
397	Plastics products, n.e.c.....	35	570	2,423	442	800	1,551	4,790	225	(D)	(D)
398	Miscellaneous manufactures <sup>4</sup> ....	117	2,570	11,875	2,073	4,227	8,991	21,063	253	1,312	7,181

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

Footnotes continued on next page



Footnotes for Table 5—Continued.

NA Not available.

<sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industry groups (3-digit) are not shown. Industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "All industries" line.

<sup>2</sup>The 1954 and 1947 "All industries" totals are not strictly comparable because of differences in scope between the two years in Major Group 20 (see footnote 3).

<sup>3</sup>Comparable data for Major Group 20 are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude plants processing and distributing fluid milk which in 1954 were classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
20	Food and kindred products except Subgroup 202, Dairy Products <sup>1</sup> , Los Angeles-Long Beach Standard Metropolitan Area.....	42,534	365,897	36,000	239,000
	San Diego Standard Metropolitan Area.....	3,522	32,713	4,400	30,000
	San Francisco-Oakland Standard Metropolitan Area.....	30,914	370,818	31,000	241,000

<sup>4</sup>Included privately owned/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)

## MANUFACTURES—AREA STATISTICS

Table 6.—GENERAL STATISTICS FOR PRINCIPAL INDUSTRIAL COUNTIES, BY MAJOR INDUSTRY GROUP: 1954 AND 1947

(Principal industrial counties include all counties with 20,000 or more manufacturing employees. For explanation of column captions see Introduction)

Code	Major industry group	1954								1947	
		Establish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendit- ures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
		ALAMEDA COUNTY									
	All industries, total <sup>1</sup> .....	1,404	68,501	308,958	51,676	101,852	215,461	656,993	27,800	<sup>2</sup> 66,322	<sup>2</sup> 409,206
20	Food and kindred products.....	226	14,254	59,791	10,074	20,723	38,075	181,605	6,258	11,999	89,543
22	Textile mill products.....	9	965	4,143	825	1,612	3,260	7,715	686	1,448	10,556
23	Apparel and related products..	48	690	2,086	604	1,056	1,665	3,008	47	517	(D)
24	Lumber and wood products.....	73	1,094	4,784	903	1,682	3,493	6,932	277	1,365	7,438
25	Furniture and fixtures.....	93	1,581	6,533	1,278	2,360	4,719	11,082	328	1,245	5,916
26	Pulp, paper and products.....	36	3,063	13,458	2,443	4,814	9,888	27,753	2,348	1,697	11,581
27	Printing and publishing.....	139	3,981	20,282	2,096	3,873	10,239	30,804	903	3,654	20,722
28	Chemicals and products.....	107	5,029	22,760	3,391	6,783	13,472	65,759	3,183	4,647	49,355
29	Petroleum and coal products...	9	446	2,114	344	672	1,513	5,927	80	522	(D)
31	Leather and leather goods.....	11	201	746	180	347	605	1,025	12	(D)	(D)
32	Stone, clay, & glass products.	36	3,050	14,757	2,617	5,143	11,828	30,067	1,812	2,890	17,427
33	Primary metal industries.....	61	3,921	18,750	3,305	6,379	15,015	32,147	1,132	3,451	17,968
34	Fabricated metal products.....	181	8,132	37,715	6,488	12,650	27,929	61,690	4,629	6,941	41,042
35	Machinery, except electrical..	177	8,490	39,059	6,406	12,469	27,574	75,308	2,716	9,102	47,271
36	Electrical machinery.....	43	1,551	6,537	1,227	2,311	4,760	17,067	752	2,387	17,741
37	Transportation equipment.....	49	9,564	44,527	7,699	15,376	34,452	77,559	2,117	12,396	56,564
38	Instrument and related prod...	25	513	2,258	306	615	1,135	4,980	92	517	(D)
		CONTRA COSTA COUNTY									
	All industries, total <sup>1</sup> .....	233	28,014	137,238	21,531	42,428	96,943	350,049	51,829	<sup>2</sup> 24,316	<sup>2</sup> 155,142
20	Food and kindred products.....	33	3,087	12,557	2,557	4,827	9,599	29,770	936	2,946	14,517
24	Lumber and wood products.....	17	121	536	104	179	393	963	74	120	738
25	Furniture and fixture.....	14	215	806	189	333	677	1,474	47	41	198
26	Pulp and paper products.....	13	1,825	8,185	1,423	2,893	6,158	23,228	1,528	970	(D)
27	Printing and publishing.....	26	424	1,892	223	418	1,015	3,288	68	313	1,667
28	Chemicals and products.....	27	3,191	16,162	2,246	4,440	10,353	52,880	3,084	2,599	25,081
29	Petroleum and coal products...	6	7,183	38,152	5,164	10,187	24,310	122,225	42,571	8,888	53,205
32	Stone, clay, & glass products.	13	1,197	5,092	1,034	2,041	4,263	10,305	433	1,156	6,524
33	Primary metal industries.....	5	4,711	22,971	3,768	7,355	17,009	48,983	1,627	3,643	(D)
34	Fabricated metal industries...	25	1,772	8,599	1,474	2,836	6,887	17,321	870	1,344	6,992
35	Machinery, except electrical..	19	1,135	6,554	783	1,649	4,397	11,678	209	362	(D)
		LOS ANGELES COUNTY									
	All industries, total <sup>1</sup> .....	13,861	624,047	2,872,004	458,781	920,712	1,887,031	4,925,646	290,260	<sup>2</sup> 352,672	<sup>2</sup> 2,021,513
20	Food and kindred products.....	920	47,472	212,863	30,102	58,676	114,240	416,482	47,415	35,421	238,585
22	Textile mill products.....	141	3,270	11,821	2,748	5,476	8,681	24,025	956	2,887	16,540
23	Apparel and related products..	1,628	42,674	128,055	37,852	67,466	100,244	205,277	3,304	32,775	144,295
24	Lumber and wood products.....	487	6,680	26,969	5,668	11,143	20,839	43,794	1,824	4,599	24,680
25	Furniture and fixtures.....	894	16,187	65,958	13,536	26,252	49,160	110,715	2,307	13,248	66,391
27	Printing and publishing.....	1,316	26,240	122,202	15,323	28,171	69,087	198,044	8,004	19,688	119,445
28	Chemicals and products.....	651	15,639	71,937	10,025	19,669	38,253	204,162	14,473	11,818	118,665
30	Rubber products.....	133	13,344	61,989	10,881	21,412	47,898	115,090	12,202	12,986	70,824
32	Stone, clay, & glass products.	529	17,637	72,445	14,692	28,860	55,387	139,899	12,008	12,674	63,464
33	Primary metal industries.....	362	20,189	92,670	16,775	34,352	71,003	173,297	8,045	16,772	(D)
34	Fabricated metal products.....	1,697	46,795	212,071	37,280	74,544	150,797	368,217	20,340	32,317	170,978
35	Machinery, except electrical..	2,068	45,766	223,832	34,455	71,082	151,276	395,351	17,221	30,446	168,847
36	Electrical machinery.....	543	38,365	154,550	26,986	55,797	102,622	257,084	11,145	11,468	(D)
37	Transportation.....	787	212,012	1,092,501	148,974	311,876	690,952	1,687,687	46,113	79,221	402,765
38	Instruments and related prod..	280	10,789	50,796	7,682	15,720	33,036	90,184	6,112	5,789	25,564
	San Diego County is co-extensive with the San Diego Standard Metropolitan Area. Data for this area are shown in Table 5.										
		SAN FRANCISCO COUNTY									
	All industries, total <sup>1</sup> .....	1,901	56,580	253,101	40,984	77,118	166,048	495,815	26,645	<sup>2</sup> 61,539	<sup>2</sup> 409,556
20	Food and kindred products.....	281	14,168	64,607	8,947	17,525	37,499	162,866	16,955	13,971	121,676
23	Apparel and related products..	332	7,852	23,399	6,666	11,143	16,401	53,269	770	7,785	35,815
24	Lumber and wood products.....	46	548	2,361	443	855	1,797	3,652	222	871	4,126
25	Furniture and fixtures.....	95	2,432	10,084	1,981	3,747	7,751	17,967	356	2,868	14,547
26	Pulp, paper and products.....	31	1,340	5,982	1,099	2,117	4,336	10,317	360	1,776	10,189



Table 6.—GENERAL STATISTICS FOR PRINCIPAL INDUSTRIAL COUNTIES, BY MAJOR INDUSTRY GROUP: 1954 AND 1947--Continued  
 (Principal industrial counties include all counties with 20,000 or more manufacturing employees. For explanation of column captions see Introduction)

Code	Major industry group	1954								1947	
		Establish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendit- ures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
27	Printing and publishing.....	395	10,295	53,921	6,610	11,927	33,488	84,911	2,193	9,726	71,380
28	Chemicals and products.....	95	2,268	11,035	1,416	2,742	5,852	23,332	894	2,325	28,764
30	Rubber products.....	7	197	802	150	289	525	1,413	18	(D)	(D)
31	Leather and leather products...	23	382	1,534	321	658	1,184	2,021	129	701	3,065
32	Stone, clay, and glass products.	35	235	942	191	360	721	1,822	44	360	1,998
33	Primary metal industries.....	27	779	3,667	603	1,179	2,568	4,994	129	995	5,612
34	Fabricated metal products.....	158	5,658	26,284	4,386	8,869	19,164	45,862	2,445	6,511	35,508
35	Machinery, exc. electrical.....	136	3,157	15,468	2,168	4,303	9,830	25,643	968	3,841	23,738
36	Electrical machinery.....	32	1,443	6,737	1,097	2,092	4,516	14,578	332	1,347	8,320
38	Instruments and related prod...	20	292	1,223	190	365	653	2,171	94	360	1,198
39	Miscellaneous manufactures <sup>3</sup> ....	135	1,474	5,930	1,168	2,237	4,005	9,737	302	1,416	7,962
SANTA CLARA COUNTY											
	All industries, total <sup>1</sup> .....	567	27,942	116,213	21,304	41,433	81,328	263,587	19,914	<sup>2</sup> 18,389	<sup>2</sup> 116,810
20	Food and kindred products.....	152	11,876	42,207	9,892	19,213	31,911	101,812	6,747	(NA)	(NA)
24	Lumber and wood products.....	37	1,036	4,495	869	1,716	3,482	6,682	329	(NA)	(NA)
25	Furniture and fixtures.....	20	132	456	110	188	342	749	9	(NA)	(NA)
26	Pulp, paper and products.....	7	414	1,118	302	658	1,445	4,430	1,147	(NA)	(NA)
27	Printing and publishing.....	72	1,556	7,440	833	1,489	3,991	14,264	367	(NA)	(NA)
28	Chemicals and products.....	24	698	3,511	408	773	1,665	11,575	423	(NA)	(NA)
30	Rubber products.....	5	108	466	82	160	276	903	47	(NA)	(NA)
32	Stone, clay, and glass products	24	1,540	7,581	1,164	2,346	5,145	21,462	3,326	(NA)	(NA)
33	Primary metal industries.....	13	186	760	154	265	573	1,134	58	(NA)	(NA)
34	Fabricated metal products.....	44	1,367	6,467	1,030	1,974	4,207	13,964	3,030	(NA)	(NA)
35	Machinery exc. electrical.....	92	2,143	9,369	1,477	2,887	6,202	12,593	1,216	(NA)	(NA)
36	Electrical machinery.....	23	4,727	24,186	3,287	6,600	16,059	51,488	2,552	(NA)	(NA)

D Withheld to avoid disclosing data for individual companies.

NA Not available.

<sup>1</sup>In order to avoid disclosing data for individual companies, the statistics for some industry groups are not shown. Industry groups reporting less than 100 employees are also omitted. They are included, however, in the "All industries" line.

<sup>2</sup>The 1954 and 1947 "All industries" totals are not strictly comparable because of differences in coverage of loggers and fluid milk distributors. See discussion in Introduction and footnote to Table 4 for comparable figures at the State level.

<sup>3</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)

## MANUFACTURES—AREA STATISTICS

Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954

20 Food and kindred products	26 Pulp, paper and products	32 Stone, clay, and glass products	38 Instruments and related products
21 Tobacco manufactures	27 Printing and publishing	33 Primary metal industries	39 Miscellaneous manufactures (Includes Group 19)
22 Textile mill products	28 Chemicals and products	34 Fabricated metal products	Ordnance and accessories)
23 Apparel and related products	29 Petroleum and coal products	35 Machinery, except electrical	
24 Lumber and wood products	30 Rubber products	36 Electrical machinery	
25 Furniture and fixtures	31 Leather and leather goods	37 Transportation equipment	

(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establish- ments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
California, total.....	24,509	3,058	14	191	2,189	2,397	1,354	335	2,648	1,110	136	195	230	1,007	555	2,493	2,980	729	1,047	388	1,453
1 to 4 employees.....	10,004	970	7	58	701	1,095	626	76	1,417	446	30	74	103	448	142	976	1,392	233	318	177	715
5 to 9 employees.....	4,141	488	3	26	346	402	249	41	493	188	20	25	31	157	88	447	521	120	164	72	260
10 to 19 employees.....	3,717	464	1	42	413	325	198	46	321	164	26	22	26	159	94	428	478	103	163	49	195
20 to 49 employees.....	3,543	507	1	39	449	330	185	66	262	163	17	33	33	119	101	385	341	117	180	41	174
50 to 99 employees.....	1,498	270	1	13	184	142	69	44	77	76	17	16	22	54	56	117	113	65	73	24	65
100 to 249 employees.....	1,009	230	1	12	80	69	21	40	48	52	12	15	13	41	46	92	89	47	63	14	24
250 to 499 employees.....	359	94	...	...	12	27	4	20	15	17	4	5	1	20	18	32	32	22	22	6	8
500 to 999 employees.....	148	28	...	1	4	7	1	2	10	4	2	2	1	7	3	12	9	14	31	4	6
1,000 to 2,499 employees.....	62	7	...	...	...	...	1	...	4	...	7	2	...	2	5	3	5	5	16	1	4
2,500 employees and over.....	28	...	...	...	...	...	...	...	1	...	1	1	...	...	2	1	...	3	17	...	2
Alameda:																					
1 to 19 employees.....	945	131	...	6	37	56	64	12	120	73	6	14	8	22	32	119	125	28	23	22	47
20 to 99 employees.....	302	56	1	...	10	15	28	12	13	23	2	4	2	9	16	43	36	10	10	1	11
100 employees and over.....	157	39	...	3	1	2	1	12	6	11	1	3	1	5	13	19	16	5	16	2	1
Alpine:																					
1 to 19 employees.....	8	...	...	...	2	2	...	...	...	1	...	...	...	2	...	1	...	...	...	...	...
20 to 99 employees.....	3	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...
Amador:																					
1 to 19 employees.....	14	...	...	...	...	8	...	...	3	1	...	...	...	1	1	...	...	...	...	...	...
20 to 99 employees.....	4	...	...	...	...	2	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Butte:																					
1 to 19 employees.....	86	21	...	...	1	40	...	...	6	2	...	...	...	3	...	6	5	...	...	1	1
20 to 99 employees.....	22	8	...	...	...	11	...	...	2	...	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	7	2	...	...	...	3	...	...	...	...	...	...	...	...	...	1	...	...	...	...	1
Calaveras:																					
1 to 19 employees.....	21	...	...	...	...	15	...	...	1	...	...	...	...	1	2	...	...	...	...	...	2
20 to 99 employees.....	3	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	3	...	...	...	...	2	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Colusa:																					
1 to 19 employees.....	7	...	...	...	...	2	...	...	2	...	...	...	...	...	...	...	3	...	...	...	...
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Contra Costa:																					
1 to 19 employees.....	145	21	...	...	2	15	11	4	19	8	...	...	...	5	...	19	16	4	8	3	10
20 to 99 employees.....	38	7	...	...	...	2	2	3	6	10	...	...	...	3	2	...	...	...	2	...	1
100 employees and over.....	50	5	...	...	...	...	1	6	1	9	6	1	...	5	3	6	3	1	2	...	1
Del Norte:																					
1 to 19 employees.....	53	5	...	...	...	44	...	...	2	...	...	...	...	1	...	...	1	...	...	...	...
20 to 99 employees.....	21	...	...	...	...	21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	5	...	...	...	...	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
El Dorado:																					
1 to 19 employees.....	46	3	...	...	...	36	...	...	1	...	...	...	...	4	...	...	1	...	...	...	1
20 to 99 employees.....	14	...	...	...	...	12	...	...	...	...	...	...	...	1	...	...	1	...	...	...	...
100 employees and over.....	3	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Fresno:																					
1 to 19 employees.....	279	72	...	1	11	27	14	2	42	7	3	2	...	13	4	21	36	2	9	1	12
20 to 99 employees.....	87	48	...	...	1	5	6	...	1	6	...	...	...	5	3	3	7	...	2	...	...
100 employees and over.....	25	15	...	1	1	2	...	...	1	1	...	...	...	...	...	...	2	...	2	...	...
Glenn:																					
1 to 19 employees.....	18	10	...	...	2	1	...	...	3	...	...	...	...	1	...	...	1	...	...	...	...
20 to 99 employees.....	6	3	...	...	...	2	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Humboldt:																					
1 to 19 employees.....	369	14	...	1	1	320	2	...	12	2	...	...	...	6	...	3	2	...	1	2	3
20 to 99 employees.....	96	3	...	...	...	91	...	...	...	...	...	...	...	...	1	...	1	...	...	...	...
100 employees and over.....	23	1	...	...	...	21	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Imperial:																					
1 to 19 employees.....	56	23	...	...	1	5	1	...	5	7	...	...	1	6	...	3	4	...	...	...	...
20 to 99 employees.....	13	10	...	...	...	...	...	...	1	1	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	2	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Inyo:																					
1 to 19 employees.....	6	5	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Kern:																					
1 to 19 employees.....	129	27	...	...	1	11	9	...	23	4	2	1	...	8	2	11	25	...	1	2	2
20 to 99 employees.....	24	7	...	...	1	...	1	...	...	4	...	...	...	1	1	3	4	2	...	...	...
100 employees and over.....	12	4	...	...	...	...	...	...	1	1	4	...	...	...	1	...	1	...	...	...	...
Kings:																					
1 to 19 employees.....	22	9	...	1	...	4	...	...	3	...	...	...	...	...	...	1	2	...	...	...	2
20 to 99 employees.....	14	8	...	...	...	...	...	...	1	3	1	...	...	1	...	...	...	...	...	...	...
Lake:																					
1 to 19 employees.....	20	7	...	...	...	6	1	...	2	...	...	...	...	1	...	1	...	...	1	...	1
20 to 99 employees.....	3	1	...	...	...	1	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...
Lassen:																					
1 to 19 employees.....	11	3	...	...	...	5	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	4	1	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	3	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Los Angeles:																					
1 to 19 employees.....	10,023	577	7	98	1,048	390	689	108	1,108	480	44	78	115	394	216	1,241	1,660	339	476	208	747
20 to 99 employees.....	2,996	229	1	35	506	91	182	66	174	134	22	37	41	99	103	375	319	140	204	51	187
100 employees and over.....	842	114	1	8	74	6	23	32	34	37	14	18	9	36	43	81	64	107			



Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954—Continued  
(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establish- ments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Madera:																					
1 to 19 employees.....	33	11	...	...	...	9	...	...	3	2	...	...	...	4	...	2	...	...	1	1	...
20 to 99 employees.....	8	4	...	...	...	1	...	...	1	...	...	...	...	1	...	...	1	...	...	...	...
100 employees and over.....	2	...	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
Marin:																					
1 to 19 employees.....	80	11	...	...	3	9	9	1	11	3	...	...	...	5	2	3	4	2	7	...	10
20 to 99 employees.....	11	2	...	...	...	...	1	...	1	...	...	...	...	1	1	2	1	...	1	...	1
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
Mariposa:																					
1 to 19 employees.....	5	...	...	...	...	4	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Mendocino:																					
1 to 19 employees.....	203	14	...	...	...	175	1	...	4	...	...	...	...	1	...	...	4	...	...	2	2
20 to 99 employees.....	51	...	...	...	...	50	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	12	...	...	...	...	10	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...
Merced:																					
1 to 19 employees.....	50	23	...	...	1	3	2	1	9	...	...	...	...	2	...	2	4	...	1	...	2
20 to 99 employees.....	17	11	...	...	...	2	...	1	1	...	...	...	...	1	...	1	...	...	...	...	...
100 employees and over.....	3	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Modoc:																					
1 to 19 employees.....	15	1	...	...	...	12	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	3	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Mono:																					
1 to 19 employees.....	9	1	...	...	...	2	...	...	...	1	...	...	...	...	1	2	2	...	...	...	...
20 to 99 employees.....	3	...	...	2	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	4	...	...	...	...	1	...	1	...	...	...	...	...	...	1	1	...	...	...	...	...
Monterey:																					
1 to 19 employees.....	107	30	...	...	2	10	4	1	19	7	...	...	1	13	...	5	10	...	1	1	3
20 to 99 employees.....	30	16	...	...	1	3	...	1	2	3	...	...	...	1	...	2	...	...	...	...	1
100 employees and over.....	6	3	...	...	1	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...
Napa:																					
1 to 19 employees.....	42	19	...	...	1	2	1	...	7	...	...	...	3	1	1	3	2	...	...	1	1
20 to 99 employees.....	14	7	...	...	...	...	...	1	1	...	...	...	2	2	...	...	...	1	...	...	...
100 employees and over.....	2	...	...	...	1	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...
Nevada:																					
1 to 19 employees.....	52	3	...	...	...	36	...	1	5	...	...	...	...	...	1	3	2	...	...	...	1
20 to 99 employees.....	8	...	...	...	...	6	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...
Orange:																					
1 to 19 employees.....	410	44	...	2	18	22	26	...	55	13	1	2	2	50	6	42	54	3	34	4	32
20 to 99 employees.....	96	21	...	7	7	2	5	1	7	6	1	3	...	9	1	3	6	2	7	2	6
100 employees and over.....	33	7	...	...	...	...	...	1	1	2	...	3	...	2	2	4	4	2	2	1	2
Placer:																					
1 to 19 employees.....	42	8	...	...	1	19	...	...	7	...	...	...	...	2	...	1	1	...	...	...	3
20 to 99 employees.....	5	...	...	...	...	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	3	...	...	...	...	2	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Plumas:																					
1 to 19 employees.....	21	...	...	...	...	18	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	12	...	...	...	...	12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	5	...	...	...	...	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Riverside:																					
1 to 19 employees.....	169	34	...	...	6	5	7	1	28	4	3	1	1	22	5	13	19	...	3	4	13
20 to 99 employees.....	25	10	...	...	1	1	...	...	4	2	...	...	...	3	3	1	...	...	...	...	...
100 employees and over.....	13	2	...	...	1	...	...	...	1	...	...	...	...	4	1	1	...	1	1	...	1
Sacramento:																					
1 to 19 employees.....	215	46	...	...	12	21	16	...	34	8	...	1	1	14	2	20	16	4	5	3	12
20 to 99 employees.....	48	18	...	...	1	8	...	1	2	3	...	...	...	2	1	6	6	...	...	...	...
100 employees and over.....	25	17	...	...	...	2	...	...	2	1	...	...	...	...	...	2	...	...	1	...	...
San Benito:																					
1 to 19 employees.....	9	5	...	...	...	...	...	1	1	...	...	...	...	...	...	...	1	...	...	...	1
20 to 99 employees.....	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
San Bernardino:																					
1 to 19 employees.....	292	69	...	2	11	25	16	3	34	12	3	2	...	38	3	22	19	3	3	2	25
20 to 99 employees.....	58	17	...	1	7	3	...	1	6	4	...	...	1	2	2	6	3	1	...	4	4
100 employees and over.....	21	3	...	...	1	...	...	1	1	...	1	...	...	6	3	2	1	1	...	1	1
San Diego:																					
1 to 19 employees.....	481	73	...	...	21	32	36	5	88	16	1	3	2	26	4	46	49	18	24	7	30
20 to 99 employees.....	90	26	...	...	7	1	6	1	10	3	...	...	...	4	1	6	5	1	11	2	6
100 employees and over.....	24	9	...	...	1	...	...	...	1	1	...	...	...	...	...	...	...	1	10	1	...
San Francisco:																					
1 to 19 employees.....	1,393	163	4	10	240	35	74	13	312	70	4	4	17	33	17	125	104	16	16	16	120
20 to 99 employees.....	409	82	...	6	80	11	19	16	67	21	...	3	5	2	8	25	24	13	9	4	14
100 employees and over.....	99	36	...	1	12	...	2	2	16	4	...	...	1	...	2	8	8	3	3	...	1
San Joaquin:																					
1 to 19 employees.....	177	51	...	...	4	14	9	1	25	9	...	1	...	9	2	9	25	5	3	...	10
20 to 99 employees.....	57	25	...	...	...	4	...	2	2	2	...	...	...	7	2	4	7	1	1	...	...
100 employees and over.....	32	17	...	...	...	5	...	2	1	...	...	...	...	...	...	1	3	...	3	...	...
San Luis Obispo:																					
1 to 19 employees.....	33	11	...	1	...	2	1	...	9	3	...	...	...	2	...	3	...	...	...	...	1
20 to 99 employees.....	6	3	...	...	1	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...
San Mateo:																					
1 to 19 employees.....	307	28	...	3	5	30	24	4	32	18	3	3	5	10	4	41	46	14	8	5	24
20 to 99 employees.....	73	9	...	...	3	2	2	...	6	7	...	1	3	2	6	14	10	3	1	3	1
100 employees and over.....	33	5	...	...	...	...	...	2	3	2	...	...	...	1	2	4	5	2	6	1	...

## MANUFACTURES—AREA STATISTICS

Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954—Continued  
(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establish- ments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Santa Barbara:																					
1 to 19 employees.....	105	25	...	1	5	3	4	1	26	9	1	2	1	7	1	6	7	1	1	...	4
20 to 99 employees.....	16	7	...	...	...	...	...	...	1	...	2	...	...	...	...	1	1	3	1	...	...
100 employees and over.....	4	2	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1
Santa Clara:																					
1 to 19 employees.....	403	79	...	...	12	31	20	2	60	18	2	4	...	13	9	35	77	12	5	9	15
20 to 99 employees.....	98	41	...	...	...	3	...	4	7	5	...	1	...	8	4	4	10	4	1	1	5
100 employees and over.....	66	32	...	...	1	3	...	1	5	1	...	...	1	3	...	5	5	7	...	...	2
Santa Cruz:																					
1 to 19 employees.....	74	28	...	...	3	9	4	1	6	3	...	...	...	1	1	2	8	1	1	...	6
20 to 99 employees.....	17	6	...	...	1	3	1	...	3	1	...	...	1	...	...	...	...	...	...	...	1
100 employees and over.....	8	6	...	...	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Shasta:																					
1 to 19 employees.....	81	4	...	...	...	68	...	...	5	...	...	...	...	1	...	2	1	...	...	...	...
20 to 99 employees.....	27	3	...	...	...	22	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...
100 employees and over.....	4	...	...	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sierra:																					
1 to 19 employees.....	6	...	...	...	...	5	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Siskiyou:																					
1 to 19 employees.....	66	11	...	...	...	46	1	...	6	...	...	...	...	1	...	...	1	...	...	...	...
20 to 99 employees.....	21	1	...	...	...	19	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	7	...	...	...	...	7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Solano:																					
1 to 19 employees.....	47	16	...	...	...	1	2	1	8	1	...	1	...	2	1	3	2	1	3	1	4
20 to 99 employees.....	12	8	...	...	2	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1	...
100 employees and over.....	4	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1
Sonoma:																					
1 to 19 employees.....	213	58	...	...	2	78	10	...	15	2	1	1	3	10	...	10	11	1	3	1	7
20 to 99 employees.....	48	18	...	1	2	20	...	...	2	...	...	...	...	...	1	...	3	...	...	...	1
100 employees and over.....	10	3	...	...	1	3	...	...	1	...	...	...	1	...	...	1	...	...	...	...	...
Stanislaus:																					
1 to 19 employees.....	124	40	...	...	3	6	7	...	19	7	...	...	...	9	3	8	15	1	2	1	3
20 to 99 employees.....	32	20	...	...	...	2	...	...	1	3	...	...	...	...	...	2	3	...	1	...	...
100 employees and over.....	19	15	...	...	...	...	...	...	1	1	...	...	...	...	...	1	...	...	...	...	1
Sutter:																					
1 to 19 employees.....	23	5	...	...	...	9	...	...	2	...	...	...	...	2	...	3	1	...	...	...	1
20 to 99 employees.....	5	3	...	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tehama:																					
1 to 19 employees.....	23	4	...	...	...	8	1	...	6	2	...	...	...	1	...	...	...	...	...	...	1
20 to 99 employees.....	11	4	...	...	...	7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	3	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Trinity:																					
1 to 19 employees.....	39	...	...	...	...	38	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	8	...	...	...	...	8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tulare:																					
1 to 19 employees.....	105	41	...	...	3	14	1	...	10	1	...	...	...	9	3	8	9	1	...	...	5
20 to 99 employees.....	30	17	...	...	...	4	...	...	4	...	...	...	...	2	1	...	1	...	1	...	...
100 employees and over.....	7	5	...	...	...	1	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...
Tuolumne:																					
1 to 19 employees.....	23	6	...	...	...	14	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	4	...	...	...	...	3	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Ventura:																					
1 to 19 employees.....	64	15	...	...	1	...	4	...	14	3	2	1	...	3	1	5	9	...	1	...	5
20 to 99 employees.....	17	8	...	...	1	...	...	...	3	...	2	...	...	2	...	...	1	...	...	...	...
100 employees and over.....	6	4	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1	...	...
Yolo:																					
1 to 19 employees.....	35	13	...	...	...	3	1	...	3	1	...	...	...	3	...	1	6	...	3	1	...
20 to 99 employees.....	10	5	...	...	...	1	...	...	2	...	...	...	...	...	...	...	2	...	...	...	...
100 employees and over.....	3	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Yuba:																					
1 to 19 employees.....	28	4	...	...	...	17	1	...	2	...	...	...	...	1	...	...	1	...	1	...	1
20 to 99 employees.....	5	1	...	...	...	3	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...



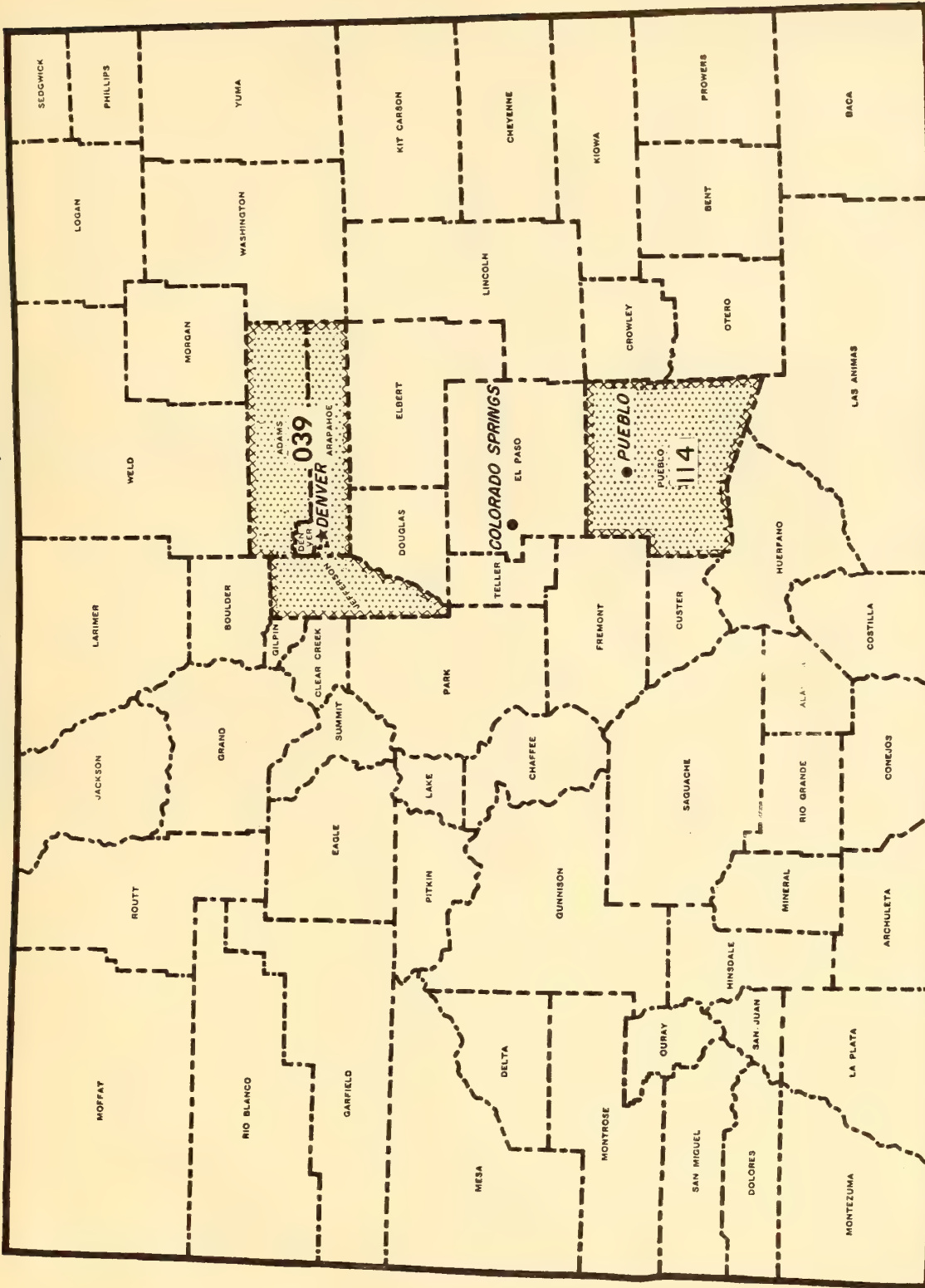






# COLORADO

## COLORADO (63 COUNTIES)



- LEGEND**
- PLACES OF 25,000 TO 100,000 (1950)
  - ★ PLACES OF 100,000 AND OVER (1950)
  - ▨ STANDARD METROPOLITAN AREAS

### STANDARD METROPOLITAN AREAS

CODE  
039 DENVER  
114 PUEBLO

## MANUFACTURES—AREA STATISTICS

Table 1.—MANUFACTURING EMPLOYMENT AT OPERATING ESTABLISHMENTS AND CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARIES FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS

(This table includes data for all manufacturing employees including those located in central administrative offices and auxiliaries. Tables 2-7 in this report include data for operating establishments only. For explanation of column captions see Introduction)

State, standard metropolitan areas, and year <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	(Number)	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
Colorado:						
1954.....	65,002	257,286	63,041	247,110	1,961	10,176
1953 <sup>2</sup> .....	60,220	237,137	58,864	230,377	1,356	6,760
1952 <sup>2</sup> .....	59,390	213,998	58,577	209,178	<sup>3</sup> 813	<sup>3</sup> 4,820
1951 <sup>2</sup> .....	58,157	196,178	57,344	191,358	813	4,820
1950 <sup>2</sup> .....	56,508	166,105	55,657	161,773	851	4,332
1949 <sup>2</sup> .....	50,593	149,903	49,565	145,271	1,028	4,632
1954						
Standard metropolitan areas:						
Denver <sup>4</sup> .....	42,583	176,666	40,774	167,289	1,809	9,377
Pueblo <sup>5</sup> .....	8,675	36,199	8,675	36,199	...	...

<sup>1</sup>Employment data for administrative offices and auxiliaries on a State basis are not available for the years prior to 1949. Similar data for standard metropolitan areas are available only for 1954.

<sup>2</sup>The employment figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period. The employment figures for administrative and auxiliary units were compiled chiefly from Bureau of Old-Age and Survivors Insurance records and are not strictly comparable with the figures for these units that were collected by the Bureau of the Census for the year 1954.

<sup>3</sup>The 1951 data is shown for 1952 as auxiliary and administrative unit data were not collected in 1952.

<sup>4</sup>The Denver Standard Metropolitan Area consists of Adams, Arapahoe, Denver, and Jefferson Counties, Colorado.

<sup>5</sup>The Pueblo Standard Metropolitan Area consists of Pueblo County, Colorado.



Table 2.—GENERAL STATISTICS FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Year	Establish- ments, number	All employees		Production workers		Value added by manufacture (\$1,000)	
		Number	Payroll (\$1,000)	Number	Wages (\$1,000)		
COLORADO							
1954 <sup>1</sup> .....	2,069	63,041	247,110	47,941	172,995	472,433	
1953 <sup>2</sup> .....	}	58,864	230,377	46,269	167,807	438,466	
1952 <sup>2</sup> .....		58,577	209,178	45,450	150,500	397,464	
1951 <sup>2</sup> .....		(NA)	57,344	191,358	44,340	139,252	393,899
1950 <sup>2</sup> .....		55,657	161,773	42,959	116,176	340,795	
1949 <sup>2</sup> .....		49,565	145,271	38,897	103,237	278,626	
1947.....	1,602	54,071	144,207	44,153	109,734	286,774	
1939.....	1,219	32,234	43,953	23,388	28,038	90,330	
1937.....	1,233	31,129	42,052	25,932	31,753	92,103	
1935.....	1,160	25,621	30,276	20,858	21,530	63,588	
1933.....	1,067	(NA)	(NA)	21,287	20,060	61,537	
1931.....	1,359	(NA)	(NA)	24,788	29,635	76,338	
1929.....	1,548	39,113	57,221	32,890	43,640	122,331	
1927.....	1,483	(NA)	(NA)	32,001	43,194	104,944	
1925.....	1,416	(NA)	(NA)	31,967	43,008	107,586	
1923.....	1,377	(NA)	(NA)	31,226	40,653	105,097	
1921.....	1,491	(NA)	(NA)	27,625	38,611	74,076	
1919.....	2,230	40,786	53,770	33,759	41,020	97,195	
1914.....	2,114	31,928	26,498	27,215	20,141	46,967	
1909.....	2,034	32,393	25,560	28,067	19,912	49,553	
1904.....	1,606	24,490	18,649	21,813	15,100	37,030	
1899.....	1,323	21,368	13,766	19,498	11,708	28,317	
DENVER STANDARD METROPOLITAN AREA							
1954 <sup>1</sup> .....	1,060	40,774	167,289	29,696	110,874	313,644	
1947.....	(NA)	34,288	(NA)	(NA)	(NA)	183,713	

NA Not available. <sup>1</sup>The 1954 figures include data for establishments engaged in the processing and distribution of fluid milk, Industry Group 202, Dairy Products. These establishments were not included in the figures for the Annual Survey years 1949-1953 or earlier Census years. In addition, the 1954 Census and Annual Survey years include data for Logging Camps and Contractors, Industry 2411, which were not included within the scope of the 1947 Census. See footnotes to Table 4 for comparable 1954 and 1947 totals. There were also a number of changes in the definition of manufacturing industries during earlier Census years that affect the comparability of the historical series. Among the more important of these were: figures for 1935 and later years exclude data for "Railroad repair shops" and "Manufactured gas" which were included in 1899-1933 figures; the minimum size of establishment included for 1954 and 1947 was one employee, for 1939-1921 manufacturing establishments reporting value of shipments of \$5,000 or more were within scope whereas for 1919 and earlier years the cutoff was \$500. (This change in procedure has not appreciably affected the comparability of the historical data except for the figures on number of establishments.) <sup>2</sup>The employment and payroll figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period.

## MANUFACTURES--AREA STATISTICS

Table 3.--GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
Colorado, total.....	1,325,089	2,069	63,041	247,110	47,941	95,782	172,995	472,433	30,121	(1)	(1)
STANDARD METROPOLITAN AREAS											
Denver.....	563,832	1,060	40,774	167,289	29,696	60,466	110,874	313,644	17,953	34,288	183,713
Pueblo.....	90,188	89	8,675	36,199	7,596	14,752	30,827	72,109	3,025	8,274	38,536
COUNTIES											
Adams.....	40,234	49	2,352	9,934	1,734	3,508	6,633	33,134	1,331	1,218	10,385
Alamosa.....	10,531	12	92	305	75	138	228	549	56	88	645
Arapahoe.....	52,125	61	2,566	11,062	1,935	3,871	7,299	16,912	694	1,318	4,632
Archuleta.....	3,030	12	129	266	124	123	159	463	38	106	291
Baca.....	7,964	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	11	36
Bent.....	8,775	8	106	310	84	196	226	576	460	97	(D)
Boulder.....	48,296	80	1,080	3,455	828	1,591	2,368	6,817	1,034	936	6,507
Chaffee.....	7,168	11	93	277	64	123	174	469	44	90	(D)
Cheyenne.....	3,453	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...	...
Clear Creek.....	3,289	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	14	66
Conejos.....	10,171	10	42	101	37	75	85	145	797	12	44
Costilla.....	6,067	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Crowley.....	5,222	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	180	(D)
Custer.....	1,573	5	17	50	16	41	48	86	36	9	(D)
Delta.....	17,365	20	372	1,013	321	584	814	1,452	110	345	1,679
Denver <sup>2</sup> .....	415,786	890	33,458	135,265	24,319	49,674	89,776	236,932	13,803	30,876	162,391
Dolores.....	1,966	5	14	36	12	23	30	204	14	(D)	(D)
Douglas.....	3,507	4	269	(D)	233	(D)	(D)	(D)	(D)	175	(D)
Eagle.....	4,488	16	94	213	81	145	205	437	75	53	139
Elbert.....	4,477	4	16	44	13	22	36	91	4	(D)	(D)
El Paso.....	74,523	123	2,717	9,363	1,998	3,893	6,196	17,989	666	1,642	5,563
Fremont.....	18,366	27	463	1,639	399	792	1,374	6,935	374	338	2,428
Garfield.....	11,625	11	52	146	32	61	93	291	19	84	272
Gilpin.....	850	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...	...
Grand.....	3,963	20	166	575	158	288	521	864	104	152	507
Gunnison.....	5,716	12	60	125	51	83	100	215	18	65	161
Hinsdale.....	263	...	...	...	...	...	...	...	...	...	...
Huerfano.....	10,549	10	66	127	47	99	87	331	3	87	157
Jackson.....	1,976	14	250	815	240	410	763	1,253	95	219	758
Jefferson.....	55,687	60	2,396	11,027	1,708	3,412	7,164	26,665	2,123	876	6,305
Kiowa.....	3,003	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Kit Carson.....	8,600	4	12	28	8	16	24	62	...	12	40
Lake.....	6,150	9	248	(D)	198	(D)	(D)	(D)	(D)	288	(D)
La Plata.....	14,880	24	294	924	232	477	677	1,683	299	251	1,110
Larimer.....	43,554	73	1,164	3,782	928	1,844	2,825	10,016	445	1,211	10,653
Las Animas.....	25,902	27	224	672	167	349	480	924	26	417	1,135
Lincoln.....	5,909	3	20	57	17	33	48	73	(D)	7	39
Logan.....	17,187	15	322	1,114	224	474	720	1,732	69	291	2,100
Mesa.....	38,974	51	658	2,091	434	857	1,203	4,138	195	679	2,541
Mineral.....	698	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Moffat.....	5,946	4	33	(D)	23	(D)	(D)	(D)	(D)	31	(D)
Montezuma.....	9,991	17	175	500	159	251	432	691	112	208	712
Montrose.....	15,220	18	116	290	87	180	216	507	39	85	438
Morgan.....	18,074	18	577	1,718	473	894	1,290	4,061	369	454	3,370
Otero.....	25,275	41	691	1,917	513	973	1,343	2,714	286	650	3,370
Ouray.....	2,103	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Park.....	1,870	5	14	20	13	21	19	25	9	(D)	(D)
Phillips.....	4,924	3	8	24	6	11	21	47	(D)	6	29
Pitkin.....	1,646	4	92	(D)	70	(D)	(D)	(D)	(D)	(D)	(D)
Prowers.....	14,836	22	313	926	243	561	692	1,833	163	358	2,490
Pueblo.....	90,188	89	8,675	36,199	7,596	14,752	30,827	72,109	3,025	8,274	38,536
Rio Blanco.....	4,719	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Rio Grande.....	12,832	14	235	659	195	375	500	831	178	104	504
Routt.....	8,940	17	105	233	97	155	212	559	44	88	312
Saguache.....	5,664	7	39	68	38	53	65	153	(D)	5	6
San Juan.....	1,471	3	8	8	7	11	7	21	(D)	(D)	(D)
San Miguel.....	2,693	11	54	182	49	124	162	209	51	14	55
Sedgwick.....	5,095	8	145	(D)	126	(D)	(D)	(D)	(D)	216	1,795
Summit.....	1,135	4	12	34	11	16	27	73	(D)	29	108
Teller.....	2,754	8	32	99	28	49	87	110	15	13	27
Washington.....	7,520	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Weld.....	67,504	75	1,562	5,213	1,177	2,304	3,468	9,792	2,438	1,282	9,569
Yuma.....	10,827	4	33	72	27	53	62	136	25	12	51
CITIES WITH 10,000 INHAB- ITANTS OR MORE											
Aurora.....	11,421	9	52	133	38	76	92	290	14	(NA)	(NA)
Boulder.....	19,999	39	396	1,312	279	539	814	2,336	193	292	1,085
Colorado Springs.....	45,472	88	1,921	6,521	1,382	2,642	4,104	12,911	413	1,162	3,941
Denver <sup>2</sup> .....	415,786	890	33,458	135,265	24,319	49,674	89,776	236,932	13,803	30,876	162,391
Englewood.....	16,869	31	1,089	4,825	842	1,622	3,355	7,241	275	(NA)	(NA)
Fort Collins.....	14,937	20	227	633	149	251	363	947	50	144	708
Grand Junction.....	14,504	38	564	1,869	378	738	1,055	3,656	130	500	2,061
Greeley.....	20,354	34	499	1,471	389	733	1,029	2,668	124	371	(D)
Pueblo.....	63,685	68	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1,443	(D)
Trinidad.....	12,204	22	168	507	119	229	344	708	19	296	(D)

D Withheld to avoid disclosing figures for individual companies. NA Not available. <sup>1</sup>The 1947 data are not strictly comparable with the figures shown for 1954 due to differences in coverages of loggers and fluid milk distributors. See discussion in Introduction and footnotes to Table 4. <sup>2</sup>Denver County is coextensive with Denver city.



Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954										1947	
		Establishments, number		All employees		Production workers			Value added by manufacture	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
	All industries, total <sup>1</sup> ...	2,069	490	63,041	247,110	47,941	95,782	172,995	472,433	( <sup>2</sup> )	30,121	( <sup>3</sup> )	( <sup>3</sup> )
20	Food and kindred products..	509	158	16,641	60,925	11,846	24,151	39,225	120,852	( <sup>2</sup> )	8,619	( <sup>3</sup> )	( <sup>3</sup> )
201	Meat products.....	70	27	4,402	18,437	3,378	6,931	13,157	25,072	( <sup>2</sup> )	1,349	3,597	18,080
2011	Meat packing, plants.....	46	18	3,810	16,333	2,918	5,979	11,787	22,058	( <sup>2</sup> )	1,114	3,231	15,786
2013	Prepared meats.....	9	3	295	1,315	210	457	772	2,469	( <sup>2</sup> )	131	300	2,078
2015	Poultry dressing, plants.....	15	6	297	788	250	493	597	544	5,697	103	66	(D)
202	Dairy products.....	121	28	2,075	7,267	1,097	2,398	3,537	17,460	( <sup>2</sup> )	1,225	( <sup>3</sup> )	( <sup>3</sup> )
2021	Creamery butter.....	13	2	137	527	89	204	332	1,363	8,700	35	( <sup>3</sup> )	( <sup>3</sup> )
2024	Ice cream and ices.....	16	3	214	648	130	272	359	1,694	4,298	336	( <sup>3</sup> )	( <sup>3</sup> )
2027	Fluid milk and other products..	68	19	1,529	5,486	731	1,609	2,396	12,703	35,951	808	( <sup>3</sup> )	( <sup>3</sup> )
203	Canned and frozen foods.....	25	15	999	2,303	872	1,464	1,626	4,135	( <sup>2</sup> )	259	1,310	3,747
2033	Canned fruits and vegetables..	13	10	524	1,203	471	820	903	2,411	5,464	104	771	2,100
2035	Pickles and sauces.....	8	3	321	804	264	486	547	1,275	3,571	(D)	371	1,047
2037	Frozen fruits and vegetables..	4	2	153	296	137	158	175	448	1,102	(D)	(NA)	(NA)
204	Grain mill products.....	62	14	1,122	3,812	858	1,974	2,840	9,189	( <sup>2</sup> )	846	1,412	11,858
2041	Flour and meal.....	13	5	434	1,647	319	1,251	3,913	26,102	125	689	(D)	(D)
2042	Prepared animal feeds.....	49	9	688	2,164	539	1,257	1,588	5,276	18,464	721	705	(D)
205	Bakery products.....	79	29	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2051	Bread and related products....	74	26	2,139	7,771	1,308	2,694	3,785	13,807	26,186	578	(D)	(D)
206	Sugar.....	16	16	2,129	7,890	1,717	3,425	6,040	18,174	43,384	(D)	3,012	28,252
2063	Beet sugar.....	16	16	2,129	7,890	1,717	3,425	6,040	18,174	43,384	(D)	3,012	28,252
207	Candy and related products...	16	4	477	1,147	331	662	790	1,665	3,867	60	472	1,784
2071	Confectionery products.....	16	4	477	1,147	331	662	790	1,665	3,867	60	472	1,784
208	Beverages.....	61	11	1,444	6,135	868	1,733	3,264	17,512	( <sup>2</sup> )	2,033	1,114	9,461
2082	Beer and ale.....	4	4	785	3,891	561	1,163	2,468	12,417	26,046	(D)	596	(D)
209	Miscellaneous foods.....	59	14	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2097	Manufactured ice.....	9	4	206	728	124	262	395	1,249	1,555	(D)	360	2,344
2099	Food preparations, n.e.c.....	46	9	619	1,918	446	872	1,101	3,793	12,624	272	497	673
22	Textile mill products.....	4	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	116	363
23	Apparel and related products.....	66	24	1,880	4,689	1,598	2,859	3,376	6,971	( <sup>2</sup> )	124	1,632	5,234
232	Men's and boys' furnishings..	10	7	930	2,411	750	1,329	1,584	2,952	( <sup>2</sup> )	53	712	2,076
233	Women's and misses' outerwear	8	5	198	514	178	354	437	862	( <sup>2</sup> )	9	167	440
238	Miscellaneous apparel.....	10	2	219	420	206	356	375	896	( <sup>2</sup> )	1	(D)	(D)
239	Fabricated textiles, n.e.c....	32	8	446	1,143	384	707	819	1,961	( <sup>2</sup> )	59	386	1,295
2394	Canvas products.....	10	3	130	468	98	199	273	361	1,317	13	143	490
24	Lumber and wood products...	279	31	2,912	8,496	2,559	4,709	6,901	12,959	( <sup>2</sup> )	1,953	( <sup>3</sup> )	( <sup>3</sup> )
2411	Logging camps and contractors	38	1	161	356	139	225	292	774	1,236	141	( <sup>3</sup> )	( <sup>3</sup> )
242	Lumber and basic products....	193	19	1,746	4,727	1,604	2,793	4,054	7,108	13,097	1,591	1,422	4,914
2421	Sawmills and planing mills....	193	19	1,746	4,727	1,604	2,793	4,054	7,108	13,097	1,591	1,422	4,914
243	Millwork and related products	26	3	377	1,455	325	712	1,197	2,098	4,856	107	401	1,297
2431	Millwork plants.....	26	3	377	1,455	325	712	1,197	2,098	4,856	107	401	1,297
244	Wooden containers.....	8	3	322	1,040	236	466	652	1,179	( <sup>2</sup> )	39	196	(D)
249	Miscellaneous wood products..	14	5	303	918	253	511	703	1,797	( <sup>2</sup> )	73	258	(D)
2491	Wood preserving.....	5	4	238	736	192	388	539	1,462	3,641	25	205	(D)
25	Furniture and fixtures.....	90	16	876	3,160	709	1,392	2,279	5,194	( <sup>2</sup> )	145	672	2,655
251	Household furniture.....	48	11	568	1,976	476	953	1,440	3,442	( <sup>2</sup> )	92	305	1,322
2512	Upholstered household furniture	14	6	260	889	227	453	691	1,319	2,979	11	158	684
2515	Mattresses and bedsprings.....	10	5	213	822	165	336	508	1,683	3,863	25	141	(D)
2541	Partitions and fixtures.....	17	4	198	884	157	296	654	1,304	2,206	25	294	960
26	Pulp, paper and products...	18	11	701	2,833	554	1,139	1,887	6,292	( <sup>2</sup> )	952	613	(D)
267	Paperboard containers.....	10	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2671	Paperboard boxes.....	9	7	372	1,352	300	610	951	2,741	5,981	239	376	(D)
27	Printing and publishing....	342	45	5,927	24,095	3,829	7,146	15,248	39,553	( <sup>2</sup> )	2,411	4,596	22,386
2711	Newspapers.....	139	22	3,417	14,025	1,988	3,485	8,412	22,398	35,738	1,203	2,246	12,640
2721	Periodicals.....	22	2	437	1,597	267	447	888	3,180	4,100	59	631	2,186
2741	Miscellaneous publishing.....	7	2	178	621	109	223	348	1,029	1,276	4	12	(D)
2751	Commercial printing.....	103	7	755	2,990	583	1,128	2,202	4,673	7,556	311	1,028	4,136
2761	Lithographing.....	24	7	726	3,318	579	1,273	2,336	5,498	8,026	598	332	1,820
279	Printing trade services.....	27	3	261	1,124	183	361	758	1,962	( <sup>2</sup> )	178	246	1,203
2792	Engraving and plate printing...	5	1	104	337	68	145	193	617	819	(D)	(D)	(D)
28	Chemicals and products.....	92	21	3,145	14,430	1,899	3,766	7,856	33,024	( <sup>2</sup> )	2,817	1,275	8,271
281	Inorganic chemicals.....	7	3	1,150	5,705	725	1,477	3,403	12,601	( <sup>2</sup> )	48	(D)	(D)
282	Organic chemicals.....	5	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2829	Organic chemicals, n.e.c.....	3	1	172	721	39	69	130	166	454	...	(NA)	(NA)
284	Soap and related products....	11	1	140	635	55	109	158	918	( <sup>2</sup> )	21	(D)	(D)
285	Paints and allied products...	10	5	306	1,266	168	301	571	2,269	( <sup>2</sup> )	46	280	1,606
289	Chemical products, n.e.c.....	32	5	846	3,929	502	1,001	2,040	13,029	( <sup>2</sup> )	654	287	2,372

See footnotes at end of table.

## MANUFACTURES—AREA STATISTICS

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establish- ments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
29	Petroleum and coal products	15	9	961	4,353	766	1,506	3,288	13,364	( <sup>2</sup> )	732	791	9,607
2911	Petroleum refining.....	9	5	432	2,196	319	630	1,564	8,722	38,716	538	243	(D)
30	Rubber products.....	10	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
31	Leather and leather prod- ucts.....	19	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1,180	4,370
32	Stone, clay and glass products.....	111	27	2,787	10,548	2,327	4,682	8,234	23,231	( <sup>2</sup> )	1,763	2,430	11,966
325	Structural clay products.....	19	13	1,202	4,544	1,005	2,074	3,579	7,380	( <sup>2</sup> )	459	981	3,405
3251	Brick and hollow tile.....	12	8	779	3,110	640	1,364	2,408	5,268	7,119	312	308	1,188
326	Pottery and related products.	10	2	405	1,574	361	716	1,284	2,061	2,853	(D)	362	(D)
3269	Pottery products, n.e.c.....	10	2	405	1,574	361	716	1,284	2,061	2,853	(D)	362	(D)
327	Concrete and plaster products	54	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3271	Concrete products.....	50	6	416	1,532	313	646	1,050	2,746	5,153	282	370	1,875
33	Primary metal products.....	37	15	7,806	32,859	7,020	13,581	28,660	67,067	( <sup>2</sup> )	2,746	7,880	37,395
34	Fabricated metal products..	134	35	2,729	11,354	1,991	3,948	7,126	18,243	( <sup>2</sup> )	1,232	2,326	11,261
342	Cutlery, tools, and hardware.	12	4	266	875	237	456	590	1,728	( <sup>2</sup> )	17	531	2,015
344	Structural metal products....	73	22	1,870	8,259	1,293	2,601	5,046	12,914	( <sup>2</sup> )	566	1,363	6,997
3441	Structural and ornamental work.	30	12	791	3,244	575	1,140	2,168	5,945	12,661	276	485	2,984
3444	Sheet-metal work.....	28	4	492	2,175	320	617	1,265	2,780	6,736	57	483	2,289
346	Metal stamping and coating...	18	3	176	560	143	295	430	747	( <sup>2</sup> )	35	(D)	(D)
348	Fabricated wire products.....	7	2	101	388	86	136	221	572	1,517	55	63	(D)
3489	Wirework, n.e.c.....	7	2	101	388	86	136	221	572	1,517	55	63	(D)
349	Metal products, n.e.c.....	13	2	180	728	130	252	496	1,779	( <sup>2</sup> )	38	120	(D)
3499	Fabricated metal prod., n.e.c..	8	2	135	518	94	171	330	1,349	2,649	35	120	(D)
35	Machinery, except electri- cal.....	148	37	4,523	19,166	3,475	6,879	13,079	32,974	( <sup>2</sup> )	1,439	4,416	22,132
352	Tractors and farm machinery..	24	3	282	1,106	217	428	714	1,919	( <sup>2</sup> )	140	364	2,764
353	Construction and mining ma- chinery.....	23	12	2,267	9,792	1,685	3,289	6,659	17,213	( <sup>2</sup> )	556	1,747	9,403
356	General industrial machinery.	18	9	621	2,928	445	881	1,676	5,857	( <sup>2</sup> )	137	744	3,588
359	Miscellaneous machinery parts	53	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3599	Machine shops.....	43	9	778	3,034	665	1,382	2,394	4,236	7,658	(D)	214	(D)
36	Electrical machinery.....	20	8	871	2,751	737	1,394	2,012	4,257	( <sup>2</sup> )	311	294	(D)
369	Electrical products, n.e.c....	7	2	120	375	94	156	266	790	2,129	(D)	(D)	(D)
3691	Storage batteries.....	7	2	120	375	94	156	266	790	2,129	(D)	(D)	(D)
37	Transportation equipment...	23	9	863	3,322	685	1,371	2,341	5,362	( <sup>2</sup> )	116	751	3,518
371	Motor vehicles and equipment.	21	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3717	Motor vehicles and parts.....	15	5	418	1,401	326	643	961	2,095	( <sup>2</sup> )	71	210	(D)
38	Instruments and related products.....	29	5	677	2,365	489	858	1,460	3,996	( <sup>2</sup> )	165	360	1,737
384	Medical equipment and sup- plies.....	17	3	220	904	145	289	474	1,538	( <sup>2</sup> )	90	79	(D)
39	Miscellaneous manufactures <sup>4</sup>	123	28	2,812	10,081	2,314	4,574	7,002	17,572	( <sup>2</sup> )	(D)	1,804	6,204
391	Jewelry and silverware.....	10	...	50	146	40	73	105	285	( <sup>2</sup> )	...	43	(D)
394	Toys and sporting goods.....	25	8	800	2,225	739	1,505	1,948	4,121	( <sup>2</sup> )	165	745	2,091
3949	Sporting and athletic goods....	21	8	764	2,101	706	1,470	1,903	3,958	7,189	157	702	(D)
395	Office supplies.....	5	3	170	789	105	236	379	1,004	( <sup>2</sup> )	(D)	...	...
398	} Miscellaneous manufactures <sup>4</sup> ..	64	13	1,572	6,374	1,244	2,451	4,154	11,358	( <sup>2</sup> )	237	772	3,386
399		7	1	128	415	108	205	310	534	1,146	(D)	156	(D)
3981		Brooms and brushes.....	7	1	128	415	108	205	310	534	1,146	(D)	156
3993	Signs and advertising displays.	33	5	294	1,131	217	378	669	2,171	2,959	60	250	1,219
1900	Ordinance and accessories...	8	4	950	3,996	790	1,615	2,771	7,284	( <sup>2</sup> )	146	(D)	(D)

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industries (4-digit) and industry groups (3-digit) are not shown. Industries and industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "all industries" line.<sup>2</sup>The total value of shipments figures for industry groups and a few individual industries have not been published due to the extensive and unmeasurable duplication arising from shipments from one establishment to another in the same industry classification. (See Introduction.)

Footnotes continued on next page



Footnotes for Table 4.

<sup>3</sup>Comparable data are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude establishments in S.I.C. Industry 2411, Logging Camps and Contractors, which are included in the scope of the 1954 Census; the 1947 Census also excludes plants processing and distributing fluid milk which in 1954 were classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	All industries except subgroups 202 and 2411, total.....	60,805	454,199	53,587	284,040
20	Food and kindred products except subgroup 202, Dairy products.....	14,566	103,392	14,811	89,941
24	Lumber and wood products except Industry 2411, logging camps and contractors.....	2,751	12,185	2,282	8,106

<sup>4</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)

## MANUFACTURES—AREA STATISTICS

Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947  
(For explanation of column captions see Introduction)

Code	Industry group	Establishments, number	1954							1947	
			All employees		Production workers			Value added by manufacture	Capital expenditures, new	All employees, number	Value added by manufacture
			Number	Payroll (\$1,000)	Number	Man-hours ((1,000)	Wages (\$1,000)				
DENVER STANDARD METROPOLITAN AREA (Consists of Adams, Arapahoe, Denver, and Jefferson Counties, Colorado)											
	All industries, total <sup>1</sup> ...	1,060	40,774	167,289	29,696	60,466	110,874	313,644	17,953	<sup>2</sup> 34,288	<sup>2</sup> 183,713
20	Food and kindred products...	183	10,321	40,630	7,167	14,664	25,443	78,524	5,084		
201	Meat products.....	28	3,767	16,398	2,851	5,866	11,494	21,398	1,040		
202	Dairy products.....	42	1,082	4,091	514	1,110	1,803	11,019	817		
203	Canned and frozen foods.....	8	352	909	293	510	611	1,547	113		
204	Grain mill products.....	9	368	1,462	264	601	1,113	4,091	147		
205	Bakery products.....	30	2,476	9,061	1,728	3,546	5,373	18,330	726		
208	Beverages.....	15	1,037	4,860	644	1,287	2,638	14,819	1,703		
209	Miscellaneous foods.....	40	648	2,207	442	858	1,210	4,319	(D)		
22	Textile mill products, total	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)		
23	Apparel and related products	56	1,687	4,279	1,419	2,539	2,048	6,141	118		
232	Men's and boys' suits and coats	10	930	2,411	750	1,329	1,584	2,952	53		
233	Women's and misses' outerwear..	8	198	514	178	354	437	862	9		
24	Lumber and wood products....	39	986	3,445	790	1,671	2,536	4,976	247		
242	Lumber and basic products.....	10	165	553	136	303	432	561	63		
243	Millwork and related products..	18	320	1,256	277	609	1,028	1,706	105		
244	Wooden containers.....	4	260	889	180	354	519	1,111	24		
249	Miscellaneous wood products....	7	239	747	195	405	556	1,596	54		
25	Furniture and fixtures.....	63	779	2,913	626	1,242	2,090	4,796	134		
251	Household furniture.....	30	494	1,826	411	834	1,305	3,198	84		
26	Pulp, paper and products....	17	(D)	(D)	(D)	(D)	(D)	(D)	(D)		
27	Printing and publishing.....	188	4,105	17,873	2,671	5,032	11,395	28,281	2,014		
271	Newspapers.....	34	2,189	9,742	1,282	2,153	5,915	14,530	905		
274	Miscellaneous publishing.....	4	163	585	101	209	329	972	3		
275	Commercial printing.....	73	549	2,365	436	854	1,778	3,857	262		
276	Lithographing.....	19	693	3,216	549	1,214	2,245	5,314	589		
279	Printing trade services.....	23	251	1,088	175	347	731	1,900	177		
28	Chemicals and products.....	65	2,585	12,125	1,550	3,097	6,525	30,163	505		
281	Inorganic chemicals.....	7	1,150	5,705	725	1,477	3,403	12,601	48		
283	Drugs and medicines.....	11	108	413	75	152	245	657	34		
289	Chemical products, n.e.c.....	24	808	3,792	474	944	1,950	12,707	294		
29	Petroleum and coal products.	11	516	2,512	378	762	1,735	8,840	541		
30	Rubber products.....	8	(D)	(D)	3,591	(D)	(D)	(D)	(D)		
31	Leather and leather goods...	17	(D)	(D)	(D)	(D)	(D)	(D)	(D)		
319	Miscellaneous leather goods....	9	136	386	115	246	266	588	6		
32	Stone, clay and glass products.....	50	1,603	6,246	1,300	2,664	4,767	9,830	1,106		
325	Structural clay products.....	8	778	3,014	618	1,311	2,328	4,751	266		
327	Concrete and plaster products..	20	333	1,315	260	520	906	2,319	226		
33	Primary metal industries....	27	1,051	(D)	885	(D)	(D)	(D)	(D)		
332	Iron and steel foundries.....	9	668	2,554	576	1,123	2,074	4,691	191		
336	Nonferrous foundries.....	12	180	677	153	303	532	1,051	(D)		
34	Fabricated metal products...	97	2,197	9,365	1,569	3,106	5,700	14,079	1,086		
342	Cutlery, tools, and hardware...	8	118	397	103	200	200	899	8		
344	Structural metal products.....	50	1,630	7,276	1,114	2,235	4,381	10,646	465		
35	Machinery, exc. electrical..	99	3,598	15,706	2,706	5,326	10,472	27,066	1,024		
352	Tractors and farm machinery....	8	151	721	113	228	435	1,175	97		
353	Construction and mining mach...	19	2,045	8,860	1,509	2,936	6,004	14,994	462		
355	Special-industry machinery, nec.	12	311	1,296	263	506	952	2,079	98		
359	Miscellaneous machinery parts..	31	355	1,417	292	599	1,091	2,215	167		
36	Electrical machinery.....	15	288	1,009	218	358	681	1,787	233		
361	Elec. industrial apparatus.....	4	143	584	103	174	394	912	(D)		
37	Transportation equipment....	10	416	1,648	297	577	974	2,408	44		
371	Motor vehicles and equipment...	10	416	1,648	297	577	974	2,408	44		
38	Instruments and related products.....	22	627	2,186	453	795	1,364	3,777	133		
384	Medical equipment and supplies.	14	210	881	137	274	456	1,494	71		
39	Miscellaneous manufactures <sup>3</sup> ...	89	2,434	8,926	2,006	3,991	6,162	15,839	(D)		
394	Toys and sporting goods.....	20	682	1,880	634	1,299	1,671	3,650	111		
395	Office supplies.....	5	170	789	105	236	379	1,004	(D)		
397	Plastics products, n.e.c.....	9	133	307	111	160	222	576	79		
398	Miscellaneous manufactures <sup>3</sup> ....	41	1,355	5,671	1,076	2,146	3,665	10,161	220		
399											

Note: Detailed figures may not add to the totals because of independent rounding. D Withheld to avoid disclosing figures for individual companies. NA Not available. <sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industry groups (3-digit) are not shown. Industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "All industries" line. <sup>2</sup>The 1954 and 1947 "All industries" totals are not strictly comparable because of differences in coverage of loggers and fluid milk distributors. See discussion in Introduction and footnote to Table 4 for comparable figures at the State level. <sup>3</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)



Table 6.—GENERAL STATISTICS FOR PRINCIPAL INDUSTRIAL COUNTIES, BY MAJOR INDUSTRY GROUP: 1954 AND 1947  
 (Principal industrial counties include all counties with 20,000 or more manufacturing employees. For explanation of column captions see Introduction)

Code	Major industry group	1954								1947	
		Establishments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
		DENVER COUNTY									
	All industries, total <sup>1</sup> .....	890	33,458	135,265	24,319	49,674	89,776	236,932	13,803	<sup>2</sup> 30,876	<sup>2</sup> 162,391
20	Food and kindred products.....	157	8,902	34,642	6,104	12,473	21,381	61,204	3,488	<sup>2</sup> 7,802	<sup>2</sup> 40,592
24	Lumber and wood products.....	21	591	2,182	469	988	1,580	2,997	176	<sup>2</sup> 614	<sup>2</sup> 2,292
25	Furniture and fixtures.....	55	713	2,668	573	1,153	1,897	4,404	87	653	2,627
26	Pulp, paper and products.....	15	576	2,266	449	904	1,462	4,639	736	453	(D)
27	Printing and publishing.....	163	3,949	17,436	2,574	4,851	11,103	27,369	1,977	2,923	15,833
32	Stone, clay and glass products	37	1,140	4,379	897	1,830	3,243	7,074	386	1,023	4,300
34	Fabricated metal products.....	79	1,864	7,957	1,344	2,656	4,819	12,366	929	1,686	8,349
35	Machinery, exc. electrical....	82	2,642	11,166	1,967	3,909	7,367	20,407	747	2,986	16,179
36	Electrical machinery.....	15	288	1,009	218	358	681	1,787	233	211	1,116
39	Miscellaneous manufactures <sup>3</sup> ...	76	1,560	5,454	1,314	2,654	4,010	9,518	(D)	1,458	5,191

D Withheld to avoid disclosing data for individual companies.

<sup>1</sup>In order to avoid disclosing data for individual companies, the statistics for some industry groups are not shown. Industry groups reporting less than 100 employees are also omitted. They are included, however, in the "All industries" line.

<sup>2</sup>The 1954 and 1947 "All industries" totals are not strictly comparable because of differences in coverage of loggers and fluid milk distributors. See discussion in Introduction and footnote to Table 4 for comparable figures at the State level.

<sup>3</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)

## MANUFACTURES—AREA STATISTICS

Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954

20 Food and kindred products	26 Pulp, paper and products	32 Stone, clay, and glass products	38 Instruments and related products
21 Tobacco manufactures	27 Printing and publishing	33 Primary metal industries	
22 Textile mill products	28 Chemicals and products	34 Fabricated metal products	39 Miscellaneous manufactures
23 Apparel and related products	29 Petroleum and coal products	35 Machinery, except electrical	(Includes Group 19
24 Lumber and wood products	30 Rubber products	36 Electrical machinery	Ordnance and accessories)
25 Furniture and fixtures	31 Leather and leather goods	37 Transportation equipment	

(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Colorado, total.....	2,069	509	...	4	66	279	90	18	342	92	15	10	19	111	37	134	148	20	23	29	123
1 to 4 employees.....	934	170	...	1	26	159	50	4	186	36	2	3	9	55	9	63	69	6	11	15	60
5 to 9 employees.....	383	96	...	...	10	64	16	1	72	22	...	2	4	17	5	23	20	4	1	5	21
10 to 19 employees.....	262	85	...	1	6	25	8	2	39	13	4	2	...	12	8	13	22	2	2	4	14
20 to 49 employees.....	266	82	...	1	14	20	12	7	26	12	4	1	5	15	3	18	20	4	4	2	16
50 to 99 employees.....	107	32	...	1	7	6	4	2	9	5	3	...	...	5	2	11	7	2	2	1	8
100 to 249 employees.....	87	38	...	...	1	5	...	2	6	1	1	...	...	4	8	6	8	1	3	1	2
250 to 499 employees.....	16	2	...	...	2	...	...	...	3	1	1	...	...	3	1	...	...	1	...	1	1
500 to 999 employees.....	9	4	...	...	...	...	...	...	...	1	...	1	...	...	...	...	2	...	...	...	1
1,000 to 2,499 employees.....	3	...	...	...	...	...	...	...	1	1	...	...	1	...	...	...	...	...	...	...	...
2,500 employees and over.....	2	...	...	...	...	...	...	...	...	...	...	1	...	...	1	...	...	...	...	...	...
Adams:																					
1 to 19 employees.....	28	7	...	...	...	2	2	...	5	1	1	...	1	2	...	2	4	...	...	...	1
20 to 99 employees.....	14	2	...	...	...	2	...	1	...	1	5	...	...	1	...	1	...	...	...	...	1
100 employees and over.....	7	3	...	...	...	1	...	...	...	1	1	...	...	...	1	...	...	...	...	...	...
Alamosa:																					
1 to 19 employees.....	12	8	...	...	...	...	...	...	2	...	1	...	...	...	...	...	...	...	...	...	1
Arapahoe:																					
1 to 19 employees.....	39	2	...	...	1	5	3	1	5	1	...	2	1	3	1	4	5	...	1	...	4
20 to 99 employees.....	17	2	...	...	...	2	1	...	2	...	...	1	...	...	...	3	4	...	1	...	1
100 employees and over.....	5	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	2	...	...	...	1
Archuleta:																					
1 to 19 employees.....	10	...	...	...	...	9	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Baca:																					
1 to 19 employees.....	2	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
Bent:																					
1 to 19 employees.....	7	4	...	...	...	...	...	...	2	1	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Boulder:																					
1 to 19 employees.....	66	12	...	...	2	9	7	...	8	3	...	...	...	5	1	2	6	1	1	3	6
20 to 99 employees.....	12	4	...	...	...	...	...	...	2	...	...	...	...	3	...	1	1	...	1	...	...
100 employees and over.....	2	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...
Chaffee:																					
1 to 19 employees.....	10	3	...	...	...	2	1	...	1	...	...	...	...	3	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Cheyenne:																					
1 to 19 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Clear Creek:																					
1 to 19 employees.....	7	...	...	...	...	2	...	...	2	...	...	...	...	...	...	1	1	...	1	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...
Conejos:																					
1 to 19 employees.....	10	1	...	...	...	6	...	...	1	...	...	...	...	1	...	...	...	...	...	...	1
Costilla:																					
1 to 19 employees.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Crowley:																					
1 to 19 employees.....	4	3	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	2	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
Custer:																					
1 to 19 employees.....	5	1	...	...	...	3	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Delta:																					
1 to 19 employees.....	17	6	...	...	...	7	...	...	3	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	2	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...
Denver:																					
1 to 19 employees.....	620	84	...	2	30	17	40	6	140	43	3	2	8	27	16	57	59	9	5	16	56
20 to 99 employees.....	208	49	...	2	21	1	15	7	16	15	1	...	5	7	5	18	18	6	1	3	18
100 employees and over.....	62	24	...	...	2	3	...	2	7	...	...	2	1	3	3	4	5	...	2	2	2
Dolores:																					
1 to 19 employees.....	5	1	...	...	...	3	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Douglas:																					
1 to 19 employees.....	3	1	...	...	...	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
Eagle:																					
1 to 19 employees.....	15	1	...	...	...	12	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...
Elbert:																					
1 to 19 employees.....	4	...	...	...	...	2	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...
El Paso:																					
1 to 19 employees.....	99	23	...	...	3	12	7	...	17	3	...	...	1	9	2	8	6	1	1	1	5
20 to 99 employees.....	17	7	...	...	...	...	...	1	3	...	1	...	...	2	...	1	1	...	...	...	1
100 employees and over.....	7	1	...	...	...	...	...	...	2	...	...	...	...	...	...	...	2	1	1	...	...
Fremont:																					
1 to 19 employees.....	23	11	...	...	...	7	...	...	1	1	...	...	...	1	...	1	1	...	...	...	...
20 to 99 employees.....	3	...	...	...	...	...	...	...	1	...	...	...	...	2	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Garfield:																					
1 to 19 employees.....	11	5	...	...	...	2	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...
Gilpin:																					
1 to 19 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Grand:																					
1 to 19 employees.....	19	2	...	...	...	15	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...



(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																						
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39			
Gunnison:																								
1 to 19 employees.....	12	...	...	...	...	10	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...		
Huerfano:																								
1 to 19 employees.....	9	3	...	...	...	3	...	...	1	...	...	...	...	1	...	1	...	...	...	...	...	...		
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
Jackson:																								
1 to 19 employees.....	11	...	...	...	...	10	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...		
20 to 99 employees.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
100 employees and over.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
Jefferson:																								
1 to 19 employees.....	52	6	...	...	2	6	2	...	13	2	...	1	1	5	...	7	2	...	1	4	...	...		
20 to 99 employees.....	5	3	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	1	...	...		
100 employees and over.....	3	1	...	...	...	...	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...	...		
Kiowa:																								
1 to 19 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...		
Kit Carson:																								
1 to 19 employees.....	4	1	...	...	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...		
Lake:																								
1 to 19 employees.....	8	3	...	...	...	4	...	...	1	...	...	...	...	...	1	...	...	...	...	...	...	...		
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...		
La Plata:																								
1 to 19 employees.....	21	10	...	...	...	8	...	...	...	...	...	...	...	1	...	...	1	...	...	...	...	1		
20 to 99 employees.....	3	...	...	...	...	2	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...		
Larimer:																								
1 to 19 employees.....	59	18	...	...	1	13	2	...	10	...	...	...	...	6	...	...	3	...	4	...	2	...		
20 to 99 employees.....	10	4	...	...	...	3	...	...	1	...	...	...	...	1	...	...	...	...	...	...	1	...		
100 employees and over.....	4	2	...	...	...	...	...	...	...	...	...	...	...	1	...	...	1	...	...	...	...	...		
Las Animas:																								
1 to 19 employees.....	22	13	...	...	...	3	...	...	2	...	...	...	...	2	1	...	...	...	...	...	...	1		
20 to 99 employees.....	5	3	...	...	...	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...		
Lincoln:																								
1 to 19 employees.....	3	1	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...		
Logan:																								
1 to 19 employees.....	10	7	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	1	...	...	...	...		
20 to 99 employees.....	4	3	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...		
100 employees and over.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
Mesa:																								
1 to 19 employees.....	41	12	...	...	...	2	4	...	5	2	1	...	...	4	...	2	2	...	1	1	...	5		
20 to 99 employees.....	10	6	...	...	...	...	...	...	1	...	...	...	...	1	...	1	1	...	...	...	...	...		
Mineral:																								
1 to 19 employees.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
Moffat:																								
1 to 19 employees.....	4	1	...	...	...	2	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...		
Montezuma:																								
1 to 19 employees.....	14	5	...	...	...	4	...	...	4	1	...	...	...	...	...	...	...	...	...	...	...	...		
20 to 99 employees.....	3	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
Montrose:																								
1 to 19 employees.....	17	3	...	...	...	9	...	...	2	1	...	...	...	...	...	1	1	...	...	...	...	...		
20 to 99 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...		
Morgan:																								
1 to 19 employees.....	13	7	...	...	...	...	...	...	3	...	1	...	...	1	...	1	...	...	...	...	...	...		
20 to 99 employees.....	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
100 employees and over.....	3	2	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
Otero:																								
1 to 19 employees.....	34	14	...	...	...	2	...	...	5	3	...	...	...	...	...	2	6	...	...	...	...	2		
20 to 99 employees.....	6	5	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...		
100 employees and over.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
Ouray:																								
1 to 19 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...		
Park:																								
1 to 19 employees.....	5	...	...	...	...	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
Phillips:																								
1 to 19 employees.....	3	...	...	...	...	1	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...		
Pitkin:																								
1 to 19 employees.....	2	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...		
20 to 99 employees.....	2	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...		
Prowers:																								
1 to 19 employees.....	16	13	...	...	...	...	...	...	1	1	...	...	...	1	...	...	...	...	...	...	...	...		
20 to 99 employees.....	6	5	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...		
Pueblo:																								
1 to 19 employees.....	63	22	...	...	1	7	2	...	8	3	...	...	1	1	1	8	3	...	...	2	...	4		
20 to 99 employees.....	17	7	...	...	...	1	...	...	2	1	...	...	...	2	...	3	...	...	1	...	...	...		
100 employees and over.....	9	1	...	...	...	...	...	...	1	...	1	...	...	1	3	...	1	...	...	...	...	1		
Rio Blanco:																								
1 to 19 employees.....	2	...	...	...	...	...	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...		
Rio Grande:																								
1 to 19 employees.....	12	2	...	...	...	5	...	...	1	1	...	...	...	1	...	...	2	...	...	...	...	...		
20 to 99 employees.....	2	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
Routt:																								
1 to 19 employees.....	16	5	...	...	...	9	...	...	1	...	...	...	...	...	...	1	...	...	...	...	...	...		
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
Saguache:																								
1 to 19 employees.....	7	...	...	...	...	6	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...		
San Juan:																								
1 to 19 employees.....	3	...	...	...	...	2	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...		

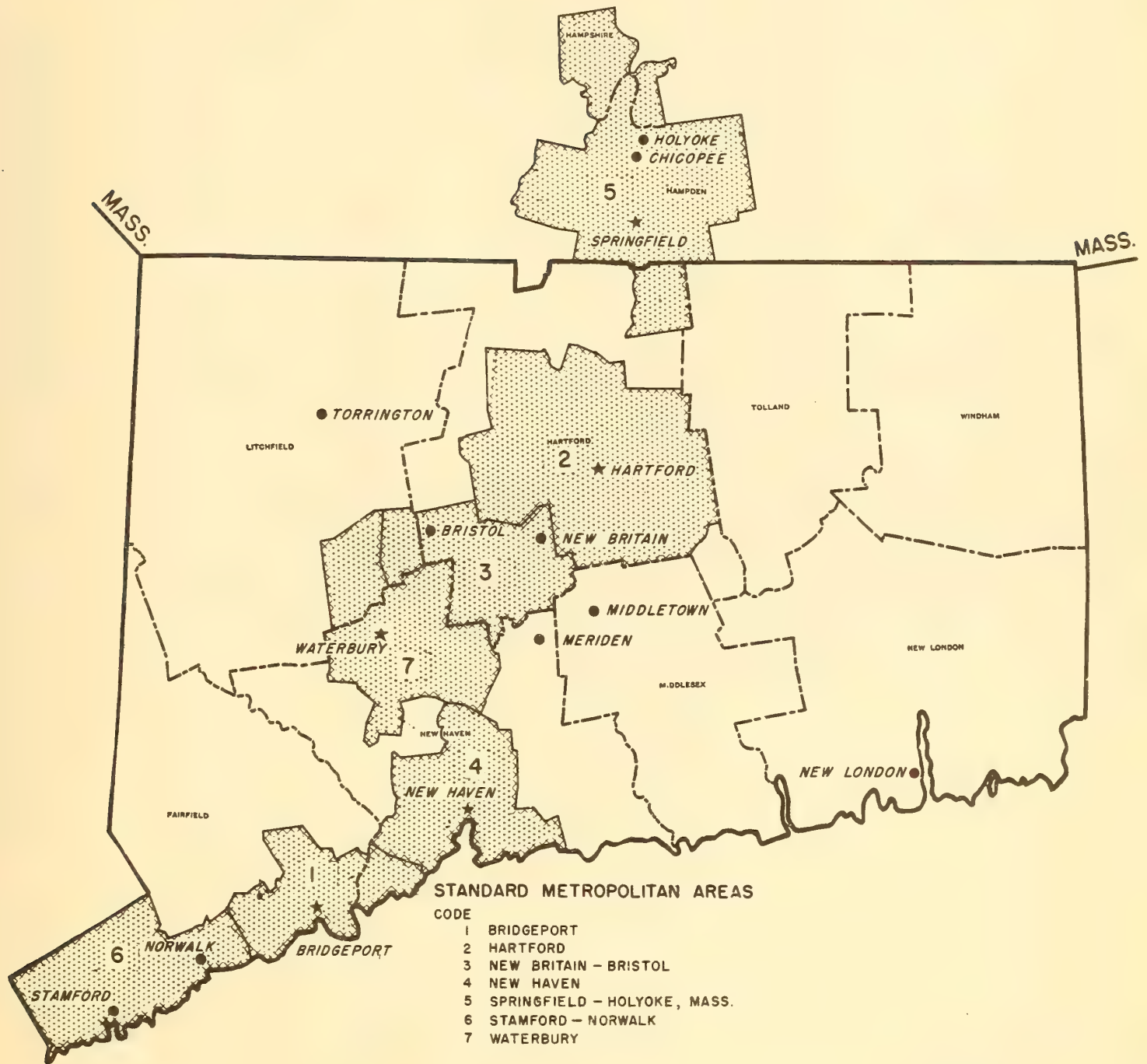
## MANUFACTURES—AREA STATISTICS

Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954—Continued  
 (Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establish- ments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
San Miguel:																					
1 to 19 employees.....	10	...	...	...	...	9	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sedgwick:																					
1 to 19 employees.....	7	2	...	...	...	...	...	...	2	...	...	...	...	...	...	1	2	...	...	...	...
100 employees and over.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Summit:																					
1 to 19 employees.....	4	...	...	...	...	3	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Teller:																					
1 to 19 employees.....	8	...	...	...	...	2	1	...	1	...	...	...	...	2	...	...	2	...	...	...	...
Washington:																					
1 to 19 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Weld:																					
1 to 19 employees.....	59	26	...	...	2	3	3	...	11	3	...	...	...	5	...	...	4	...	...	...	2
20 to 99 employees.....	11	6	...	...	...	...	...	...	1	...	...	...	...	...	...	2	...	1	...	...	1
100 employees and over.....	5	4	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
Yuma:																					
1 to 19 employees.....	3	1	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...



# CONNECTICUT (8 COUNTIES)



## LEGEND

- PLACES OF 25,000 TO 100,000
- ★ PLACES OF 100,000 AND OVER
- ▨ STANDARD METROPOLITAN AREAS

## MANUFACTURES—AREA STATISTICS

Table 1.—MANUFACTURING EMPLOYMENT AT OPERATING ESTABLISHMENTS AND CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARIES FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS

(This table includes data for all manufacturing employees including those located in central administrative offices and auxiliaries. Tables 2-7 in this report include data for operating establishments only. For explanation of column captions see Introduction)

State, standard metropolitan area, and year <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	(Number)	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
Connecticut:						
1954.....	420,034	1,750,972	413,193	1,712,136	6,841	38,836
1953 <sup>2</sup> .....	457,583	1,914,279	450,405	1,878,675	7,178	35,604
1952 <sup>2</sup> .....	431,352	1,701,547	424,172	1,670,683	<sup>3</sup> 7,180	<sup>3</sup> 30,864
1951 <sup>2</sup> .....	413,004	1,555,758	405,824	1,524,894	7,180	30,864
1950 <sup>2</sup> .....	371,332	1,237,817	366,216	1,216,513	5,116	21,304
1949 <sup>2</sup> .....	345,439	1,082,450	337,143	1,050,926	8,296	31,524
1954						
Standard metropolitan areas:						
Bridgeport <sup>4</sup> .....	67,545	293,654	64,873	279,486	2,672	14,168
Hartford <sup>5</sup> .....	77,320	343,601	76,146	335,056	1,174	8,545
New Britain-Bristol <sup>6</sup> .....	44,141	179,469	43,950	178,017	191	1,452
New Haven <sup>7</sup> .....	46,592	183,288	46,566	183,239	26	49
Springfield-Holyoke <sup>8</sup> .....	74,496	303,873	74,350	302,543	146	1,330
Stamford-Norwalk <sup>9</sup> .....	30,871	132,743	30,372	130,404	499	2,339
Waterbury <sup>10</sup> .....	43,029	184,443	42,186	179,067	843	5,376

<sup>1</sup>Employment data for administrative offices and auxiliaries on a State basis are not available for the years prior to 1949. Similar data for standard metropolitan areas are available only for 1954.

<sup>2</sup>The employment figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period. The employment figures for administrative and auxiliary units were compiled chiefly from Bureau of Old-Age and Survivors Insurance records and are not strictly comparable with the figures for these units that were collected by the Bureau of the Census for the year 1954.

<sup>3</sup>The 1951 data are shown for 1952 because auxiliary and administrative unit data were not collected in 1952.

<sup>4</sup>The Bridgeport Standard Metropolitan Area consists of Bridgeport city; Fairfield, Stratford, and Trumbull towns in Fairfield County, Conn.; Milford town in New Haven County, Connecticut.

<sup>5</sup>The Hartford Standard Metropolitan Area consists of Hartford city; Avon, Bloomfield, East Hartford, Farmington, Glastonbury, Manchester, Newington, Rocky Hill, Simsbury, South Windsor, West Hartford, Wethersfield, and Windsor towns in Hartford County, Connecticut.

<sup>6</sup>The New Britain-Bristol Standard Metropolitan Area consists of Bristol and New Britain cities; Berlin, Plainville, and Southington towns in Hartford County, Connecticut; Plymouth town in Litchfield County, Connecticut.

<sup>7</sup>The New Haven Standard Metropolitan Area consists of New Haven city; Branford, East Haven, Hamden, North Haven, Orange, West Haven, and Woodbridge towns in New Haven County, Connecticut.

<sup>8</sup>The Springfield-Holyoke Standard Metropolitan Area consists of Chicopee, Holyoke, Springfield, and Westfield cities, Agawam, East Longmeadow, Longmeadow, Ludlow, West Springfield, and Wilbraham towns in Hampden County, Mass.; Northampton city, Easthampton and South Hadley towns in Hampshire County, Mass.; Enfield town in Hartford County, Conn.

<sup>9</sup>The Stamford-Norwalk Standard Metropolitan Area consists of Norwalk and Stamford cities; Darien, Greenwich, New Canaan, and Westport towns in Fairfield County, Connecticut.

<sup>10</sup>The Waterbury Standard Metropolitan Area consists of Waterbury city; Naugatuck borough; Beacon Falls, Cheshire, Middlebury, Prospect, and Wolcott towns in New Haven County, Conn.; Thomastown and Watertown towns in Litchfield County, Connecticut.



Table 2.—GENERAL STATISTICS FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Year	Establish- ments, number	All employees		Production workers		Value added by manufacture (\$1,000)	
		Number	Payroll (\$1,000)	Number	Wages (\$1,000)		
CONNECTICUT							
1954 <sup>1</sup> .....	5,090	{	413,193	1,712,136	326,815	1,231,359	2,877,486
1953 <sup>2</sup> .....			450,405	1,878,675	363,144	1,393,974	3,192,556
1952 <sup>2</sup> .....			424,172	1,670,683	344,602	1,253,177	2,803,599
1951 <sup>2</sup> .....	(NA)		405,824	1,524,894	334,527	1,161,947	2,597,422
1950 <sup>2</sup> .....			366,216	1,216,513	302,498	916,306	2,123,444
1949 <sup>2</sup> .....			337,143	1,050,926	275,842	771,827	1,674,430
1947.....	3,946		399,955	1,149,348	331,867	881,974	1,896,711
1939.....	2,809		281,439	382,340	232,979	275,616	690,323
1937.....	2,892		299,650	394,206	262,620	312,270	680,787
1935.....	2,820		256,108	293,994	223,041	226,253	491,483
1933.....	2,410	{	(NA)	(NA)	183,322	157,608	357,459
1931.....	2,817		(NA)	(NA)	192,174	199,396	470,568
1929.....	3,129		288,016	422,345	251,861	328,865	806,214
1927.....	2,877	{			240,806	304,504	688,724
1925.....	3,062		(NA)	(NA)	242,362	301,200	662,309
1923.....	3,130				263,232	314,829	675,320
1921.....	3,320				210,990	221,126	428,318
1919.....	4,571		332,817	404,847	291,599	323,348	703,638
1914.....	4,093		251,333	160,705	226,224	125,195	256,899
1909.....	4,251		230,403	135,756	210,792	110,119	233,012
1904.....	3,477		195,128	104,938	181,605	87,943	177,780
1899.....	3,382		168,991	85,149	159,733	73,394	145,435
BRIDGEPORT STANDARD METROPOLITAN AREA							
1954 <sup>1</sup> .....	725		64,873	279,486	49,577	193,654	509,938
1947.....	584		70,150	203,458	56,033	151,709	341,702
1939.....	422		39,779	55,305	34,348	41,594	104,596
HARTFORD STANDARD METROPOLITAN AREA							
1954 <sup>1</sup> .....	728		76,146	335,056	58,945	236,367	530,171
1947.....	583		63,772	189,081	51,999	142,650	300,152
1939.....	415		38,083	59,715	31,588	44,112	118,126
NEW BRITAIN-BRISTOL STANDARD METROPOLITAN AREA							
1954 <sup>1</sup> .....	393		43,950	178,017	35,207	134,555	273,394
1947.....	299		45,708	132,524	38,507	105,823	205,103
1939.....	160		28,408	38,657	23,564	28,555	65,681
NEW HAVEN STANDARD METROPOLITAN AREA							
1954 <sup>1</sup> .....	709		46,566	183,239	36,700	129,200	298,824
1947.....	577		41,503	115,374	34,395	86,140	188,528
1939.....	459		28,027	33,710	24,528	26,244	69,883
SPRINGFIELD-HOLYOKE STANDARD METROPOLITAN AREA							
1954 <sup>1</sup> .....	896		74,350	302,543	58,281	215,158	501,938
1947.....	831		81,598	233,624	67,366	177,556	373,118
1939.....	639		47,525	65,924	38,504	46,090	114,584
WATERBURY STANDARD METROPOLITAN AREA							
1954 <sup>1</sup> .....	391		42,186	179,067	33,970	129,487	307,565
1947.....	295		43,388	125,719	36,386	96,557	206,291
1939.....	180		32,609	44,795	28,537	34,872	81,371

NA Not available.

<sup>1</sup>The 1954 figures include data for establishments engaged in the processing and distribution of fluid milk, Industry Group 202, Dairy Products. These establishments were not included in the figures for the Annual Survey years 1949-1953 or earlier Census years. In addition, the 1954 Census and Annual Survey years include data for Logging camps and contractors, Industry 2411, which were not included within the scope of the 1947 Census. See footnotes to Table 4 for comparable 1954 and 1947 totals. There were also a number of changes in the definition of manufacturing industries during earlier Census years that affect the comparability of the historical series. Among the more important of these were: figures for 1935 and later years exclude data for "Railroad repair shops" and "Manufactured gas" which were included in 1899-1933 figures; the minimum size of establishment included for 1954 and 1947 was one employee, for 1939-1921 manufacturing establishments reporting value of shipments of \$5,000 or more were within scope whereas for 1919 and earlier years the cutoff was \$500. (This change in procedure has not appreciably affected the comparability of the historical data except for the figures on number of establishments.)

<sup>2</sup>The employment and payroll figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures Volume for this period.

## MANUFACTURES—AREA STATISTICS

Table 3.--GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
Connecticut, total.....	2,007,280	5,090	413,193	1,712,136	326,815	652,008	1,231,359	2,877,486	129,591	<sup>1</sup> 399,955	<sup>1</sup> 1,896,711
STANDARD METROPOLITAN AREAS											
Bridgeport area.....	258,137	725	64,873	279,486	49,577	98,422	193,654	509,938	17,858	70,150	341,702
Hartford area.....	358,081	728	76,146	335,056	58,945	121,337	236,367	530,171	21,912	63,772	300,152
New Britain-Bristol area.....	146,983	393	43,950	178,017	35,207	68,432	134,555	273,394	15,110	45,708	205,103
New Haven area.....	264,622	709	46,566	183,239	36,700	72,021	129,200	298,824	15,615	41,503	188,528
Springfield-Holyoke area.....	407,255	896	74,350	302,543	58,281	115,862	215,158	501,938	27,595	81,598	373,118
Portion in Connecticut....	15,464	28	2,993	(D)	2,400	(D)	(D)	(D)	(D)	3,993	(D)
Portion in Massachusetts..	391,791	868	71,357	(D)	55,881	(D)	(D)	(D)	(D)	77,605	(D)
Stamford-Norwalk area.....	196,023	575	30,372	130,404	22,497	44,004	85,132	243,011	6,874	(NA)	(NA)
Waterbury area.....	154,656	391	42,186	179,067	33,970	68,261	129,487	307,565	15,648	43,388	206,291
COUNTIES											
Fairfield.....	504,342	1,479	105,895	448,790	80,611	159,182	306,316	817,769	28,469	112,555	561,112
Hartford.....	539,661	1,168	130,848	560,875	102,218	205,379	403,445	873,906	41,740	113,820	525,706
Litchfield.....	98,872	268	16,962	64,556	13,967	27,305	47,354	106,172	7,429	18,205	85,360
Middlesex.....	67,332	227	10,088	37,928	8,106	16,475	27,270	68,696	2,468	10,544	42,791
New Haven.....	545,784	1,459	111,938	458,353	89,688	178,890	333,995	779,643	37,611	110,611	530,834
New London.....	144,821	287	22,658	91,788	19,377	39,258	73,632	146,371	9,629	17,900	79,354
Tolland.....	44,709	77	3,123	10,959	2,768	5,696	8,924	19,616	597	4,272	22,671
Windham.....	61,759	125	11,778	39,354	10,138	19,933	30,668	66,188	1,643	12,048	48,883
CITIES WITH 10,000 INHAB- ITANTS OR MORE											
Ansonia.....	18,706	33	4,297	19,705	3,661	7,281	16,503	28,136	885	6,872	28,081
Bridgeport.....	158,709	506	50,274	214,596	38,915	76,295	150,544	405,506	14,789	54,999	274,573
Bristol.....	35,961	77	10,529	45,796	8,621	16,757	38,568	63,399	5,293	13,856	61,618
Danbury.....	22,067	115	7,590	27,593	5,887	11,218	18,922	46,116	1,739	5,789	30,839
Derby.....	10,259	42	2,216	9,218	1,889	3,978	7,011	14,258	638	1,454	5,841
Hartford.....	177,397	387	29,812	119,271	23,335	46,601	85,432	201,401	8,007	34,516	162,741
Meriden.....	44,088	124	9,496	38,506	7,816	15,907	30,521	66,433	3,374	12,752	73,365
Middleton.....	29,711	69	4,204	16,284	3,471	7,089	12,146	25,007	992	5,730	21,707
Naugatuck.....	17,455	29	8,768	38,067	7,059	14,514	28,113	75,473	4,190	7,507	47,943
New Britain.....	73,726	145	21,844	85,304	17,372	33,360	62,773	136,336	6,674	23,602	102,079
New Haven.....	164,443	500	33,015	125,715	26,180	50,764	89,107	196,538	9,483	33,575	150,010
New London.....	30,551	67	3,166	11,538	2,375	4,956	7,939	17,979	1,232	1,952	7,935
Norwalk.....	49,460	205	11,047	43,718	8,199	15,973	27,351	69,679	2,126	9,855	46,480
Norwich.....	23,429	73	5,314	17,934	4,565	8,743	13,653	26,467	1,301	4,100	18,029
Shelton.....	12,694	50	3,445	13,939	2,809	5,925	10,096	23,079	1,651	4,067	17,054
Stamford.....	74,293	256	12,554	54,946	9,693	18,893	37,005	110,844	3,445	11,126	51,454
Torrington.....	27,820	61	7,842	29,373	6,434	12,016	21,417	46,378	4,330	8,724	40,667
Wallingford.....	11,994	61	5,842	23,335	4,773	9,819	18,499	55,065	1,396	4,799	30,996
Waterbury.....	104,477	260	26,377	112,675	20,958	41,904	80,196	186,097	9,303	29,685	126,565
Willimantic.....	13,586	20	4,785	15,777	4,203	8,049	12,498	24,832	563	2,947	12,700

D Withheld to avoid disclosing figures for individual companies.

NA Not available

<sup>1</sup>The 1947 data are not strictly comparable with the figures shown for 1954 due to differences in coverage of loggers and fluid milk distributors.  
See discussion in Introduction and footnotes to Table 4.



Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954										1947	
		Establish- ments, number		All employees		Production workers			Value added by manufacture	Value of shipments	Capital expendi- tures, new	All employees, number	Value added by manufacture
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
	All industries, total <sup>1</sup> .....	5,090	1,864	413,193	1,712,136	326,815	652,008	1,231,359	2,877,486	( <sup>2</sup> )	129,591	<sup>3</sup> 399,955	<sup>4</sup> 1,896,711
20	Food and kindred products..	559	134	12,760	50,336	7,307	14,736	24,096	95,462	( <sup>2</sup> )	4,833	( <sup>4</sup> )	( <sup>4</sup> )
201	Meat products.....	47	12	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2011	Meat packing plants.....	16	5	763	3,200	589	1,311	2,330	3,556	( <sup>2</sup> )	(D)	591	2,413
2013	Prepared meats.....	26	4	331	1,257	229	484	779	2,253	( <sup>2</sup> )	133	(D)	(D)
2015	Poultry dressing plants.....	5	3	328	1,055	287	663	910	2,090	( <sup>2</sup> )	52	(D)	(D)
202	Dairy products.....	215	46	4,611	19,141	2,080	4,218	6,804	36,558	( <sup>2</sup> )	2,411	( <sup>4</sup> )	( <sup>4</sup> )
2024	Ice cream and ices.....	23	6	454	1,820	250	511	821	5,128	( <sup>2</sup> )	306	( <sup>4</sup> )	( <sup>4</sup> )
2026	Fluid milk.....	61	2	317	1,012	236	486	715	2,169	( <sup>2</sup> )	153	( <sup>4</sup> )	( <sup>4</sup> )
2027	Fluid milk and other products..	121	37	3,736	16,104	1,503	3,040	5,125	28,938	( <sup>2</sup> )	1,866	( <sup>4</sup> )	( <sup>4</sup> )
203	Canned and frozen foods.....	18	5	302	851	265	473	640	2,382	( <sup>2</sup> )	78	(D)	(D)
2035	Pickles and sauces.....	9	2	133	397	118	209	333	1,561	( <sup>2</sup> )	19	100	(D)
204	Grain mill products.....	8	4	190	709	134	280	424	1,911	( <sup>2</sup> )	37	223	2,555
205	Bakery products.....	138	35	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2051	Bread and related products.....	136	34	3,821	15,208	2,214	4,574	7,613	24,394	( <sup>2</sup> )	853	3,383	15,202
208	Beverages.....	84	23	1,429	5,271	739	1,383	2,263	10,056	( <sup>2</sup> )	585	1,398	8,512
2081	Bottled soft drinks.....	75	19	1,106	3,895	529	977	1,473	7,498	( <sup>2</sup> )	347	1,100	5,768
209	Miscellaneous foods.....	39	7	579	2,065	447	777	1,286	5,888	( <sup>2</sup> )	207	791	4,706
2099	Food preparations, n.e.c.....	18	5	348	1,235	278	422	772	3,928	( <sup>2</sup> )	145	235	(D)
21	Tobacco manufactures.....	20	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	432	(D)
2121	Cigars.....	18	3	241	605	211	374	438	958	( <sup>2</sup> )	31	(D)	(D)
22	Textile mill products.....	224	154	26,897	94,046	23,032	44,924	73,338	139,481	( <sup>2</sup> )	4,546	38,852	174,497
221	Woolen and worsted manufac- ture.....	35	29	3,696	13,117	3,373	6,945	11,122	22,034	( <sup>2</sup> )	387	7,993	37,309
2212	Yarn mills, wool, except carpet	7	7	699	1,908	652	1,253	1,659	5,158	( <sup>2</sup> )	41	824	(D)
2213	Woolen and worsted fabrics.....	25	21	2,950	11,031	2,680	5,615	9,336	16,570	( <sup>2</sup> )	340	7,113	34,032
222	Yarn and thread mills.....	13	8	2,685	7,835	2,333	4,396	6,124	12,019	( <sup>2</sup> )	(D)	2,642	12,103
2223	Thread mills.....	8	5	2,469	7,242	2,134	4,005	5,606	11,316	( <sup>2</sup> )	242	2,444	(D)
223	Broad-woven fabrics.....	23	18	5,537	18,322	4,777	9,102	14,396	21,933	( <sup>2</sup> )	572	8,720	35,436
2233	Cotton broad-woven fabrics.....	9	8	1,912	6,208	1,619	3,216	4,767	7,569	( <sup>2</sup> )	77	3,877	(D)
2234	Synthetic broad-woven fabrics..	14	10	3,625	12,114	3,158	5,885	9,629	14,363	( <sup>2</sup> )	495	(D)	(D)
225	Knitting mills.....	28	19	1,638	5,367	1,493	3,413	4,524	10,138	( <sup>2</sup> )	507	1,239	5,997
2261	Finishing textile except wool	28	22	3,428	13,897	2,989	6,266	10,983	24,720	( <sup>2</sup> )	1,236	3,839	(D)
228	Hats, except cloth and mil- linery.....	39	24	4,170	13,685	3,391	5,859	10,198	18,228	( <sup>2</sup> )	(D)	6,561	35,610
2284	Hatters' fur.....	19	7	367	1,136	314	643	841	1,813	( <sup>2</sup> )	41	828	4,332
229	Miscellaneous textile goods..	32	15	1,284	4,767	1,048	1,959	3,393	7,415	( <sup>2</sup> )	202	2,037	8,701
2292	Lace goods.....	5	5	486	1,938	392	744	1,430	2,514	( <sup>2</sup> )	25	451	(D)
2298	Cordage and twine.....	9	6	237	678	208	411	499	1,160	( <sup>2</sup> )	40	135	(D)
23	Apparel and related pro- ducts.....	385	211	17,467	46,646	16,042	28,104	38,851	74,726	( <sup>2</sup> )	803	16,157	60,938
232	Men's and boys' furnishings..	51	28	2,473	5,805	2,318	3,754	5,014	7,594	( <sup>2</sup> )	71	3,780	12,863
2321	Men's dress shirts & nightwear.	17	15	1,395	3,293	1,317	2,127	2,826	3,777	( <sup>2</sup> )	40	2,342	7,703
2323	Men's and boys' neckwear.....	8	3	356	806	338	528	744	1,653	( <sup>2</sup> )	(D)	(D)	(D)
2327	Separate trousers.....	13	7	426	1,013	394	625	864	1,232	( <sup>2</sup> )	4	599	1,698
2329	Men's & boys' clothing, n.e.c..	7	3	259	617	235	429	511	857	( <sup>2</sup> )	20	197	664
233	Women's and misses' outerwear	142	103	6,453	16,778	6,122	10,263	14,860	21,761	( <sup>2</sup> )	241	5,489	19,033
2331	Blouses.....	19	15	758	1,648	728	1,189	1,498	2,069	( <sup>2</sup> )	17	487	1,869
2333	Dresses, unit price.....	65	56	3,378	8,358	3,231	5,267	7,458	11,088	( <sup>2</sup> )	160	2,895	9,572
2339	Women's outerwear, n.e.c.....	9	6	274	707	253	446	572	820	( <sup>2</sup> )	(D)	151	293
234	Women's undergarments.....	48	33	4,426	12,448	3,933	7,507	10,090	28,907	( <sup>2</sup> )	252	(D)	(D)
2341	Women's & children's underwear.	21	13	1,553	3,591	1,450	2,882	3,142	4,497	( <sup>2</sup> )	12	1,248	(D)
2342	Corsets and allied garments....	27	20	2,873	8,856	2,482	4,625	6,948	24,409	( <sup>2</sup> )	239	2,837	12,807
236	Children's outerwear.....	14	11	1,038	3,079	959	1,606	2,413	4,191	( <sup>2</sup> )	19	476	1,382
2369	Children's outerwear, n.e.c.....	6	4	452	1,540	398	651	1,071	2,311	( <sup>2</sup> )	6	142	(D)
238	Miscellaneous apparel.....	34	14	1,078	2,877	1,001	1,714	2,299	4,779	( <sup>2</sup> )	28	861	3,434
2387	Belts.....	11	3	237	577	217	404	505	1,268	( <sup>2</sup> )	18	(D)	(D)
239	Fabricated textiles, n.e.c....	77	15	1,591	4,431	1,360	2,581	3,232	5,598	( <sup>2</sup> )	186	1,047	5,039
2391	Curtains and draperies.....	10	6	478	1,163	438	837	977	1,410	( <sup>2</sup> )	35	125	(D)
2394	Canvas products.....	30	1	171	481	138	292	349	804	( <sup>2</sup> )	(D)	116	389
2399	Textile products, n.e.c.....	16	1	357	1,125	303	591	785	1,386	( <sup>2</sup> )	84	231	1,375
24	Lumber and wood products..	170	17	1,604	5,284	1,278	2,570	3,896	8,640	( <sup>2</sup> )	359	1,427	5,494
244	Wooden containers.....	16	4	346	1,124	292	548	786	1,734	( <sup>2</sup> )	(D)	494	1,696
249	Miscellaneous wood products..	34	5	428	1,129	305	608	908	1,969	( <sup>2</sup> )	(D)	385	1,592
2499	Wood products, n.e.c.....	30	5	403	1,065	282	565	853	1,840	( <sup>2</sup> )	64	346	(D)

See footnotes at end of table.

## MANUFACTURES—AREA STATISTICS

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
25	Furniture and fixtures.....	154	35	2,632	9,602	2,156	4,342	6,781	15,279	(2)	615	2,403	8,918
251	Household furniture.....	107	28	1,964	6,993	1,646	3,273	4,967	10,875	(2)	428	1,283	5,447
2511	Wood furniture, not uphstd....	35	8	665	2,261	559	1,103	1,617	3,048	5,777	143	550	2,022
2512	Uphlstd household furniture....	32	8	618	2,200	549	1,087	1,672	3,020	6,333	145	430	1,967
2515	Mattresses and bed springs.....	29	7	424	1,712	330	709	1,093	3,414	6,986	113	194	(D)
2541	Partitions and fixtures.....	18	3	278	1,233	228	494	941	1,908	3,331	52	285	1,299
256	Screens, shades, and blinds..	19	2	162	445	114	221	265	917	(2)	79	102	414
26	Pulp, paper and products...	110	61	8,586	36,826	6,893	14,662	26,541	61,112	(2)	4,195	7,533	41,446
261	Pulp, paper and board.....	22	21	2,462	12,482	2,021	4,644	9,431	24,521	(2)	2,774	(D)	(D)
267	Paperboard containers.....	53	30	4,002	16,811	3,219	6,695	11,826	24,610	(2)	896	3,389	17,666
2671	Paperboard boxes.....	49	29	3,860	16,253	3,102	6,481	11,419	23,786	57,232	880	3,250	(D)
2674	Fiber cans, tubes, drums, etc..	4	1	142	558	116	213	407	823	1,392	15	(D)	(D)
269	Pulp, paper and products, n.e.c.....	22	7	1,529	5,627	1,153	2,377	3,776	8,674	(2)	414	(D)	(D)
2699	Pulp, paper & products, n.e.c....	16	6	1,473	5,389	1,112	2,292	3,632	8,366	15,631	405	1,349	5,710
27	Printing and publishing....	459	111	13,711	60,219	8,805	17,378	37,326	92,163	(2)	4,252	11,078	67,081
2711	Newspapers.....	68	30	4,180	18,069	2,059	3,903	9,470	30,534	41,186	1,250	3,233	19,229
2721	Periodicals.....	32	4	1,086	4,781	46	62	134	5,413	23,975	75	2,520	22,455
273	Books.....	19	6	302	1,201	156	338	567	2,224	(2)	71	292	1,136
2731	Books; publishing and printing.	10	2	123	480	11	20	55	943	1,732	27	(D)	(D)
2732	Book printing.....	9	4	178	721	144	318	512	1,281	1,743	44	(D)	(D)
2751	Commercial printing.....	208	33	5,327	22,925	4,357	8,646	17,638	33,548	51,732	1,952	3,294	15,247
2761	Lithographing.....	40	13	836	4,127	648	1,371	2,869	6,470	10,657	347	439	2,364
278	Bookbinding and related in- dustries.....	15	4	394	1,366	339	664	991	1,751	(2)	111	(D)	(D)
2781	Bookbinding.....	8	2	191	579	181	347	533	809	961	44	44	(D)
279	Printing trade services.....	65	18	1,206	6,501	1,006	2,041	5,138	9,609	(2)	355	846	4,737
2792	Engraving and plate printing...	15	1	281	1,165	247	565	842	1,756	2,525	33	152	605
2793	Photoengraving.....	28	...	495	3,309	407	771	2,663	4,647	5,326	119	476	2,769
28	Chemicals and products.....	149	43	9,528	43,371	6,714	13,857	26,539	125,565	(2)	8,102	7,707	52,329
282	Organic chemicals.....	23	11	3,767	18,719	2,660	5,605	11,833	56,220	(2)	3,599	3,051	17,712
283	Drugs and medicines.....	19	7	1,923	8,570	1,496	3,264	6,276	28,371	(2)	3,383	1,102	(D)
284	Soap and related products....	25	5	456	2,296	211	409	622	3,956	(2)	114	499	3,101
285	Paints and allied products...	24	3	410	1,941	231	450	804	3,120	8,912	210	584	2,561
2851	Paints and varnished.....	24	3	410	1,941	231	450	804	3,120	8,912	210	584	2,561
289	Chemical products, n.e.c.....	47	10	2,656	10,406	1,866	3,593	6,067	31,297	(2)	520	2,080	10,070
2893	Toilet preparations.....	12	7	1,480	5,541	912	1,774	2,492	22,488	36,927	320	1,497	6,603
2899	Chemical products, n.e.c.....	25	3	1,112	4,673	910	1,736	3,349	8,381	19,256	179	488	2,923
29	Petroleum and coal products	12	4	538	2,701	422	888	1,807	5,633	(2)	315	346	(D)
295	Paving and roofing materials.	7	1	179	848	150	324	619	1,746	(2)	208	(D)	(D)
30	Rubber products.....	55	32	13,018	53,323	10,474	21,388	39,433	94,207	(2)	7,400	10,558	56,266
31	Leather and leather goods..	46	25	2,500	7,301	2,248	4,310	5,673	9,655	(2)	291	1,572	6,358
3111	Leather tanning and finishing	7	4	254	935	220	466	722	1,302	3,631	86	(D)	(D)
314	Footwear, except rubber.....	16	14	1,544	4,380	1,410	2,646	3,400	5,642	(2)	(D)	418	1,692
3141	Footwear, except rubber.....	13	11	1,362	3,732	1,248	2,319	2,938	4,726	9,530	180	255	(D)
3142	House slippers.....	3	3	181	647	161	326	462	915	1,744	(D)	163	(D)
317	Purses and small leather goods.....	10	5	504	1,426	457	859	1,100	1,978	(2)	11	(D)	(D)
319	Miscellaneous leather goods..	6	2	129	359	105	238	310	447	1,090	(D)	(D)	(D)
3199	Leather goods, n.e.c.....	6	2	129	359	105	238	310	447	1,090	(D)	(D)	(D)
32	Stone, clay and glass products.....	131	43	4,901	20,541	3,842	7,813	14,452	32,683	(2)	1,912	5,804	28,473
3231	Products of purchased glass..	14	7	700	2,172	550	1,005	1,383	3,508	6,565	124	(D)	(D)
325	Structural clay products.....	11	9	456	1,863	392	862	1,436	2,396	(2)	370	474	1,690
326	Pottery and related products.	5	3	168	689	152	353	574	1,058	(2)	42	(D)	(D)
327	Concrete and plaster products	61	8	702	2,921	578	1,113	1,995	5,349	(2)	533	461	2,664
329	Nonmetallic mineral products, n.e.c.....	24	15	2,744	12,378	2,062	4,264	8,686	19,489	(2)	817	3,231	14,554
3291	Abrasive products.....	11	7	435	1,959	282	557	999	3,836	6,022	191	354	1,885
3293	Gaskets & asbestos insulations.	5	3	465	1,701	334	643	1,021	2,893	3,877	37	649	(D)
33	Primary metal industries...	194	105	27,617	124,002	22,712	44,352	92,575	218,461	(2)	16,261	35,014	164,506
332	Iron and steel foundries.....	31	26	2,474	9,907	2,154	4,177	7,638	13,599	(2)	554	4,467	20,537
3321	Gray iron foundries.....	24	20	1,622	6,472	1,438	2,809	5,116	8,297	12,267	485	2,927	13,684
335	Nonferrous rolling and drawing.....	26	25	15,012	68,930	12,467	24,161	53,026	122,498	(2)	11,221	20,601	92,980
3351	Copper rolling and drawing.....	22	22	14,758	67,616	12,255	23,711	52,136	120,661	348,423	11,167	20,285	(D)

See footnotes at end of table.



Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954										1947	
		Establish- ments, number		All employees		Production workers			Value added by manufacture	Value of shipments	Capital expendi- tures, new	All employees, number	Value added by manufacture
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
3361	Primary metal industries—Con. Nonferrous foundries.....	66	21	2,087	8,938	1,751	3,491	6,569	13,263	23,464	706	1,928	(D)
339	Primary metal industries, n.e.c.....	60	29	6,561	30,251	5,132	10,436	20,978	57,400	( <sup>2</sup> )	3,559	6,405	37,794
3399	Primary metal industries, nec..	31	10	1,584	7,343	1,276	2,610	5,230	16,902	44,730	1,439	1,035	7,858
34	Fabricated metal products..	763	253	44,296	180,368	35,987	71,529	130,966	283,477	( <sup>2</sup> )	11,930	56,210	244,876
342	Cutlery, tools, and hardware.	100	58	19,783	78,365	15,898	30,951	56,634	121,952	( <sup>2</sup> )	4,237	26,948	107,534
3422	Edge tools.....	9	4	575	2,283	491	998	1,814	3,260	5,028	101	1,266	6,680
3423	Hand tools, n.e.c.....	22	8	1,853	7,457	1,472	2,805	5,262	12,385	19,373	350	3,888	16,110
3429	Hardware, n.e.c.....	45	29	14,699	58,804	11,751	22,984	42,544	90,637	143,374	3,609	19,183	75,075
343	Heating and plumbing equip- ment.....	36	20	3,926	16,728	3,192	6,462	12,717	20,968	( <sup>2</sup> )	966	5,811	28,226
3431	Plumbing fixtures and fittings.	14	9	2,515	10,415	2,071	4,070	8,046	10,645	29,269	225	4,234	18,038
3439	Heating & cooking equip., nec..	22	11	1,411	6,313	1,121	2,391	4,670	10,323	19,102	741	1,577	10,188
344	Structural metal products....	115	21	1,428	6,181	1,115	2,319	4,337	9,802	( <sup>2</sup> )	312	1,258	7,651
3441	Structural and ornamental work.	39	3	326	1,461	250	530	1,025	2,355	4,876	90	434	2,467
3442	Metal doors, sash, and trim....	24	8	424	1,754	338	699	1,226	3,044	6,388	112	(D)	(D)
3443	Boiler shop products.....	10	2	208	932	157	322	637	1,272	2,494	24	388	(D)
3444	Sheet-metal work.....	42	8	469	2,034	369	767	1,447	3,130	4,777	84	283	1,614
346	Metal stamping and coating...	185	55	5,483	22,584	4,544	9,233	16,762	38,799	( <sup>2</sup> )	2,166	9,158	38,012
3463	Metal stampings.....	75	30	3,654	15,418	2,966	5,949	11,358	27,771	49,618	1,623	7,410	30,403
3467	Engraving on metal.....	6	2	108	384	91	195	288	499	691	(D)	(D)	(D)
3468	Plating and polishing.....	94	22	1,644	6,545	1,419	2,967	4,930	10,163	13,788	507	1,569	7,035
3471	Lighting fixtures.....	22	9	851	3,246	669	1,372	2,326	5,457	11,046	116	1,292	(D)
348	Fabricated wire products.....	74	33	4,444	18,155	3,649	7,144	12,835	27,856	( <sup>2</sup> )	1,251	4,343	20,873
349	Metal products, n.e.c.....	230	57	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3494	Bolts, nuts, washers & rivets..	34	17	3,971	17,171	3,189	6,340	12,049	28,736	44,061	1,394	4,268	20,142
3495	Screw machine products.....	154	30	3,160	12,951	2,680	5,500	9,690	21,308	32,386	996	2,146	11,105
3497	Metal foil.....	7	4	392	1,925	291	622	1,220	4,202	8,244	304	250	(D)
3499	Fabricated metal prod., n.e.c..	30	3	244	925	211	387	693	1,374	2,741	115	324	(D)
35	Machinery except elec- trical.....	861	250	72,836	326,936	58,162	118,085	246,305	568,320	( <sup>2</sup> )	25,452	77,650	384,826
352	Tractors and farm machinery..	9	2	97	416	76	150	297	645	( <sup>2</sup> )	54	580	2,645
354	Metalworking machinery.....	378	89	19,133	98,098	15,214	32,385	76,178	168,689	( <sup>2</sup> )	9,067	16,850	77,268
3541	Machine tools.....	41	25	10,627	57,712	8,547	18,281	43,142	103,827	141,693	5,804	8,294	35,391
3542	Metalworking machinery.....	27	12	2,107	10,931	1,620	3,551	7,750	19,018	28,646	967	2,278	11,318
3544	Special dies and tools.....	239	31	3,214	15,732	2,684	5,924	16,530	23,205	29,244	1,492	6,278	30,559
3545	Metalworking mach. attachments.	71	21	3,184	13,722	2,363	4,628	8,755	22,637	28,038	802		
355	Special-industry machinery n.e.c.....	59	27	5,689	28,787	4,280	9,043	20,874	53,858	( <sup>2</sup> )	1,262	6,606	31,905
3551	Food-products machinery.....	13	7	1,163	5,822	783	1,609	3,413	11,136	16,225	...	276	1,380
3555	Printing-trades machinery.....	8	5	1,000	4,618	772	1,542	3,207	6,619	11,536	108	1,295	6,397
3559	Special-industry mach., n.e.c..	23	9	2,253	11,975	1,829	4,081	9,950	21,022	36,845	536	3,247	16,050
356	General industrial machinery.	63	32	4,617	20,509	3,091	6,269	12,013	38,241	( <sup>2</sup> )	951	5,011	30,204
3561	Pumps and compressors.....	6	4	1,498	6,788	912	1,886	3,658	12,773	19,839	327	1,067	6,335
3564	Blowers and fans.....	10	5	544	2,403	385	732	1,484	5,118	8,137	167	1,064	(D)
3566	Power-transmission equipment...	15	8	1,326	5,837	987	1,998	3,856	9,802	14,026	276	(D)	(D)
3569	General industrial mach., n.e.c.	15	8	892	3,877	574	1,209	2,143	7,661	12,015	121	1,115	7,722
357	Office and store machines....	18	15	15,527	59,368	13,236	25,612	48,145	109,950	( <sup>2</sup> )	3,244	18,814	86,577
3579	Office & store machines, n.e.c.	11	9	3,637	16,909	2,787	5,726	12,011	37,128	51,930	1,100	3,003	17,975
358	Service and household ma- chines.....	22	12	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3585	Refrigeration machinery.....	9	6	1,241	5,612	905	1,795	3,494	9,364	( <sup>2</sup> )	419	397	(D)
359	Miscellaneous machine parts..	302	66	21,595	90,262	17,571	35,109	67,949	139,350	( <sup>2</sup> )	9,334	22,987	112,418
3591	Valves & fittings, exc. plbg...	15	6	1,925	7,414	1,480	2,821	5,304	13,070	20,748	429	1,448	6,733
3592	Fabricated pipes and fittings..	7	4	320	1,430	258	566	1,010	2,217	4,176	58	(D)	(D)
3593	Ball and roller bearing.....	21	18	15,184	63,364	12,404	24,469	47,796	95,311	134,895	7,846	19,367	94,851
3594	Industrial patterns and molds..	54	7	556	2,692	457	1,008	2,081	4,109	4,897	170	(D)	(D)
3599	Machine shops.....	205	31	3,608	15,360	2,971	6,243	11,757	24,642	36,568	830	1,460	7,035

See footnotes at end of table.

## MANUFACTURES--AREA STATISTICS

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manufacture	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
36	Electrical machinery.....	212	127	33,420	131,750	24,602	48,703	84,446	247,798	(2)	7,776	33,537	166,134
361	Electrical industrial apparatus.....	96	61	14,595	58,869	10,573	20,934	36,805	109,307	(2)	3,239	12,959	65,656
3611	Wiring devices and supplies....	29	22	7,353	29,637	5,535	10,984	19,516	56,369	86,254	1,601	7,264	36,403
3614	Motors and generators.....	13	9	2,198	9,501	1,545	3,159	6,076	18,687	37,311	385	(D)	(D)
3615	Transformers.....	6	4	298	916	266	505	692	1,495	4,026	52	694	2,782
3616	Electrical control apparatus...	21	11	3,354	13,724	2,207	4,300	7,569	24,340	38,724	863	2,362	13,763
3619	Elec. industrial apparatus,nec.	11	7	842	3,091	639	1,250	1,800	5,007	8,010	99	221	628
3621	Electrical appliances.....	17	13	7,755	30,142	5,704	11,342	20,417	62,936	97,725	2,265	8,421	42,837
366	Communication equipment.....	64	35	7,458	27,146	5,664	11,030	17,498	48,397	(2)	1,249	7,733	38,865
3661	Radios and related products....	52	28	4,486	15,210	3,749	7,305	11,060	25,674	(2)	505	5,019	20,810
369	Electrical products, n.e.c....	17	7	1,724	7,730	1,239	2,441	4,699	12,089	(2)	384	(D)	(D)
37	Transportation equipment...	143	59	63,568	295,999	49,392	102,494	213,477	432,597	(2)	14,648	29,465	120,142
372	Aircraft and parts.....	84	43	55,189	256,165	41,938	87,153	179,011	383,469	(2)	13,480	(D)	(D)
3722	Aircraft engines.....	25	22	38,897	181,940	30,463	64,431	131,798	270,518	564,000	8,971	13,950	(D)
373	Ships and boats.....	40	8	6,567	32,221	5,983	12,356	28,992	37,252	(2)	933	2,370	(D)
38	Instruments and related products.....	97	52	15,788	61,760	12,145	24,051	42,412	105,796	(2)	4,624	18,639	83,973
3821	Mech. measuring instruments..	32	18	4,327	19,341	2,976	6,071	11,946	37,393	53,453	2,032	(D)	(D)
384	Medical equipment and supplies.....	23	14	2,553	8,507	1,860	3,638	5,555	16,448	(2)	962	1,993	10,446
3842	Surgical & medical instruments.	12	8	1,884	5,908	1,333	2,547	3,706	12,223	21,307	856	1,492	8,161
387	Watches and clocks.....	17	13	7,220	26,612	6,222	12,004	20,856	38,005	(2)	1,149	10,552	42,398
3871	Watches and clocks.....	12	9	6,645	24,103	5,736	11,041	18,905	35,356	54,899	(D)	10,080	(D)
3872	Watchcases.....	5	4	575	2,509	485	962	1,951	2,649	4,966	(D)	472	(D)
39	Miscellaneous manufactures <sup>5</sup>	346	145	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	37,365	177,000
391	Jewelry and silverware.....	32	18	5,183	20,880	4,467	9,341	18,407	35,602	(2)	(D)	7,991	51,472
3914	Silverware and plated ware....	25	17	5,118	20,734	4,410	9,255	18,286	35,377	81,260	458	7,412	(D)
394	Toys and sporting goods.....	48	18	3,551	11,365	2,841	5,206	7,613	19,046	(2)	998	4,481	17,705
3941	Games and toys, n.e.c.....	18	9	2,463	8,158	1,912	3,548	5,161	13,921	21,534	875	(D)	(D)
3949	Sporting and athletic goods....	23	7	950	2,835	799	1,408	2,110	4,488	6,452	114	1,666	6,678
395	Office supplies.....	28	11	1,212	4,375	918	1,970	2,730	7,369	(2)	211	(D)	(D)
3953	Handstamps and stencils.....	14	1	278	950	218	458	743	1,652	2,823	29	44	(D)
3955	Carbon paper and inked ribbons.	4	4	426	1,466	321	665	973	3,311	6,124	37	310	(D)
396	Costume jewelry and notions..	51	29	9,083	34,984	7,448	14,264	24,794	53,829	(2)	2,939	6,537	25,339
3963	Buttons.....	7	3	363	1,079	303	613	780	1,384	3,248	61	638	2,548
3964	Needles, pins, and fasteners...	32	23	8,454	32,940	6,932	13,237	23,459	50,896	77,852	2,849	5,438	21,846
3971	Plastic products, n.e.c.....	76	27	3,923	16,039	3,308	6,773	12,071	25,194	48,189	1,249	4,606	19,301
398	Miscellaneous manufactures...	106	40	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3981	Brooms and brushes.....	10	4	847	3,696	741	1,399	2,984	7,505	13,759	(D)	728	(D)
3986	Jewelry and instrument cases...	6	4	862	3,250	704	1,431	2,209	4,809	8,481	83	1,100	(D)
3988	Morticians' goods.....	4	2	105	467	49	82	144	829	1,429	(D)	159	998
3999	Miscellaneous products, n.e.c...	20	7	792	2,639	722	1,491	2,134	3,585	5,754	118	344	(D)
1900	Ordnance and accessories.....	20	17	14,166	57,261	11,824	22,760	44,407	99,269	(2)	4,445	(D)	(D)

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industries (4-digit) and industry groups (3-digit) are not shown. Industries and industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "all industries" line.

<sup>2</sup>The total value of shipments figures for industry groups and a few individual industries have not been published due to the extensive and unmeasurable duplication arising from shipments from one establishment to another in the same industry classification. (See Introduction.)

<sup>3</sup>The 1954 and 1947 "all industries" totals are not strictly comparable because of differences in scope between the two years in major groups 20 and 24 (see footnote 4).

<sup>4</sup>Comparable data for major groups 20 and 24 are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude establishments in S.I.C. Industry 2411, Logging Camps and Contractors, which are included in the scope of the 1954 Census; the 1947 Census also excludes plants processing and distributing fluid milk which in 1954 are classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Ind. code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
20	Food and kindred products except subgroup 202, Dairy products.....	8,149	58,904	7,706	44,380
24	Lumber and wood products except Industry 2411, Logging camps and contractors.....	1,550	8,500	1,427	5,494

<sup>5</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)



Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947  
(For explanation of column captions see Introduction)

Code	Industry group	Establish- ments, number	1954							1947	
			All employees		Production workers			Value added by manufacture	Capital expendi- tures, new	All employees, number	Value added by manufacture
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
BRIDGEPORT STANDARD METROPOLITAN AREA <sup>1</sup>											
	All industries, total <sup>2</sup> ...	725	64,873	279,486	49,577	98,422	193,654	509,938	17,858	<sup>3</sup> 70,150	<sup>3</sup> 341,702
20	Food and kindred products...	58	1,954	7,288	1,044	2,141	3,380	13,751	449	(4)	(4)
202	Dairy products.....	17	711	2,917	361	747	1,231	7,017	244	(4)	(4)
205	Bakery products.....	26	1,062	3,730	580	1,181	1,823	5,388	101	(D)	(D)
21	Tobacco manufactures.....	3	74	(D)	68	(D)	(D)	(D)	(D)	62	(D)
22	Textile mill products.....	8	635	2,438	476	953	1,622	3,526	211	284	1,122
224	Narrow fabric mills.....	4	408	1,624	312	645	1,105	2,492	190	(D)	(D)
23	Apparel & related products..	65	4,059	12,032	3,640	6,552	9,787	24,933	259	3,645	14,192
233	Women's and misses' outerwear..	20	931	2,420	905	1,519	2,316	2,868	21	602	1,748
234	Women's undergarments.....	21	2,301	7,074	2,020	3,716	5,782	18,840	201	2,289	10,275
238	Miscellaneous apparel.....	9	267	970	241	437	618	1,423	(D)	(D)	(D)
24	Lumber and wood products....	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	174	(D)
25	Furniture and fixtures.....	20	449	1,528	371	745	1,044	2,252	47	272	1,210
251	Household furniture.....	15	418	1,421	348	695	969	2,070	40	214	969
26	Pulp, paper and products....	12	589	2,406	474	981	1,627	4,008	190	489	2,693
267	Paperboard containers.....	7	492	1,966	392	812	1,297	3,199	67	(D)	(D)
27	Printing and publishing.....	48	1,272	5,935	930	1,858	3,986	9,567	875	892	5,432
271	Newspapers.....	4	622	3,153	416	778	2,032	5,122	604	(D)	(D)
275	Commercial printing.....	27	266	1,134	205	450	787	1,886	142	177	948
276	Lithographing.....	5	110	556	87	187	369	885	26	(D)	(D)
279	Printing trade services.....	8	119	631	86	164	365	855	51	(D)	(D)
28	Chemicals and products.....	13	1,819	7,468	1,358	2,601	4,836	14,581	361	853	8,680
289	Chemical products, n.e.c.....	5	1,250	5,278	969	1,839	3,608	8,909	142	(D)	(D)
29	Petroleum and coal products.	3	135	(D)	117	(D)	(D)	(D)	(D)	...	...
30	Rubber products.....	7	902	3,424	723	1,366	2,462	5,880	168	706	3,777
309	Rubber industries, n.e.c.....	7	902	3,424	723	1,366	2,462	5,880	168	706	3,777
31	Leather and leather goods...	6	251	631	225	413	500	1,012	107	157	469
314	Footwear, except rubber.....	3	158	408	143	264	325	704	(D)	(D)	(D)
32	Stone, clay, & glass prod...	16	1,545	7,664	1,233	2,643	5,974	11,414	660	1,748	(D)
329	Nonmetallic mineral prod., nec.	4	1,484	7,440	1,185	2,537	5,803	10,931	611	(D)	(D)
33	Primary metal industries....	35	6,319	28,460	5,090	9,802	20,801	47,898	3,922	7,967	38,083
332	Iron and steel foundries.....	4	314	1,139	277	549	893	1,328	73	(D)	(D)
336	Nonferrous foundries.....	10	893	3,788	716	1,313	2,632	5,984	253	970	2,940
339	Primary metal industries, nec..	14	1,504	7,260	1,188	2,428	5,147	13,852	453	(D)	(D)
34	Fabricated metal products...	106	5,041	20,218	4,096	8,182	14,412	32,347	1,283	7,667	33,831
342	Cutlery, tools, and hardware...	23	3,211	12,526	2,607	5,079	8,868	20,197	692	4,078	15,294
344	Structural metal products.....	17	202	954	171	370	755	1,320	35	(D)	(D)
346	Metal stamping and coating....	27	586	2,453	485	1,036	1,832	3,802	200	797	4,294
347	Lighting fixtures.....	4	157	521	135	265	386	862	(D)	(D)	(D)
348	Fabricated wire products.....	6	369	1,670	288	544	1,003	3,078	184	(D)	(D)
35	Machinery, exc. electrical..	190	12,860	62,201	10,379	20,846	46,277	111,396	4,502	12,199	65,349
354	Metalworking machinery.....	88	5,574	31,807	4,787	10,235	24,540	58,575	3,262	3,495	16,570
355	Special-industry mach., n.e.c..	11	344	1,565	240	484	940	1,546	55	465	1,550
356	General industrial machinery...	11	582	2,579	451	922	1,749	5,699	99	(D)	(D)
358	Service and household machines.	4	1,860	8,971	1,326	2,697	6,251	12,583	442	(D)	(D)
36	Electrical machinery.....	35	9,460	38,734	6,859	13,693	25,278	90,659	2,317	13,134	75,626
361	Electrical industrial apparatus	14	4,088	16,810	3,139	6,322	11,710	34,548	793	4,700	26,196
362	Electrical appliances.....	4	3,818	15,187	2,715	5,456	10,052	42,371	827	(D)	(D)
366	Communication equipment.....	6	1,207	5,367	751	1,419	2,586	11,526	611	(D)	(D)
37	Transportation equipment....	28	9,715	44,922	6,516	13,532	27,780	66,952	497	10,189	35,439
372	Aircraft and parts.....	19	9,097	42,231	5,977	12,487	25,498	63,162	436	(D)	(D)
38	Instruments & related prod..	18	2,344	10,183	1,670	3,293	6,806	20,333	814	1,917	10,880
382	Mech. measuring instruments...	7	2,085	9,220	1,470	2,896	6,147	18,821	791	1,630	9,247
384	Medical equipment and supplies.	4	177	603	135	249	407	1,029	(D)	(D)	(D)
39	Miscellaneous manufactures <sup>5</sup> ..	46	5,392	23,001	4,257	8,351	16,330	47,669	1,160	6,328	29,496
395	Office supplies.....	7	416	1,147	343	727	879	2,469	18	436	1,949
396	Costume jewelry and notions....	5	202	522	184	336	398	661	23	242	587
397	Plastics products, n.e.c.....	11	858	3,764	753	1,509	3,071	6,033	127	965	3,903
398	Miscellaneous manufactures <sup>5</sup> ....	16	3,846	17,390	2,919	5,673	11,849	38,207	984	(D)	(D)

See footnotes at end of table.

## MANUFACTURES—AREA STATISTICS

Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Code	Industry group	Establishments, number	1954							1947	
			All employees		Production workers			Value added by manufacture	Capital expendi- tures, new	All employees, number	Value added by manufacture
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
HARTFORD STANDARD METROPOLITAN AREA <sup>6</sup>											
	All industries, total <sup>2</sup> ...	728	76,146	335,056	58,945	121,337	236,367	530,171	21,912	<sup>3</sup> 63,772	<sup>3</sup> 300,152
20	Food and kindred products...	101	3,143	12,675	1,690	3,523	5,883	22,604	1,290	(4)	(4)
201	Meat products.....	12	372	1,355	307	701	1,038	2,323	64	191	1,166
202	Dairy products.....	40	1,100	4,473	405	828	1,299	8,528	687	(4)	(4)
205	Bakery products.....	24	1,194	5,231	623	1,332	2,433	8,502	282	(D)	(D)
208	Beverages.....	12	280	1,043	184	362	660	1,345	214	378	2,896
21	Tobacco manufactures.....	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	60	128
22	Textile mill products.....	10	1,813	6,509	1,466	2,839	4,771	7,421	346	2,448	7,923
23	Apparel & related products..	32	1,140	3,402	1,029	1,783	2,664	5,690	115	1,300	6,049
233	Women's and misses' outerwear..	14	1,020	3,113	931	1,579	2,444	5,155	106	1,205	5,747
24	Lumber and wood products....	17	308	1,301	249	533	875	2,179	31	268	(D)
244	Wooden containers.....	6	168	609	136	292	429	1,122	15	(D)	(D)
25	Furniture and fixtures.....	32	534	2,221	434	898	1,572	3,409	176	421	2,054
251	Household furniture.....	26	312	1,215	250	497	823	1,891	141	(D)	(D)
26	Pulp, paper and products....	20	931	3,777	776	1,710	2,875	6,605	413	921	4,666
261	Pulp, paper and board.....	7	457	2,076	373	909	1,582	3,539	248	(D)	(D)
27	Printing and publishing.....	91	2,590	11,250	1,516	2,969	5,992	17,886	1,104	2,174	12,037
271	Newspapers.....	8	1,131	5,006	469	883	2,169	8,737	131	(D)	(D)
273	Books.....	6	106	506	75	150	311	752	20	(D)	(D)
275	Commercial printing.....	43	932	3,777	647	1,299	2,197	5,391	708	1,034	4,870
276	Lithographing.....	10	165	764	132	287	517	1,206	137	128	716
279	Printing trade services.....	19	193	916	145	259	645	1,271	62	119	658
28	Chemicals and products.....	19	1,094	4,401	807	1,647	2,743	10,637	506	1,249	6,006
284	Soap and related products.....	4	117	396	98	184	306	464	(D)	(D)	(D)
29	Petroleum and coal products.	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
30	Rubber products.....	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
31	Leather and leather goods...	7	111	411	95	190	295	662	26	99	416
32	Stone, clay, & glass prod...	18	678	2,684	531	1,128	1,854	4,358	302	1,274	8,686
327	Concrete and plaster products..	7	142	618	121	270	471	1,131	55	(D)	(D)
33	Primary metal industries....	20	1,323	5,655	1,083	2,133	4,121	9,338	125	1,199	6,093
332	Iron and steel foundries.....	6	655	2,892	572	1,163	2,226	4,300	66	871	4,194
339	Primary metal industries, nec..	8	600	2,431	456	840	1,665	4,641	53	(D)	(D)
34	Fabricated metal products...	91	4,397	19,718	3,520	7,205	13,751	33,220	1,299	4,583	24,015
342	Cutlery, tools, and hardware...	8	512	2,331	380	809	1,490	4,219	64	(D)	(D)
343	Heating and plumbing equipment.	8	599	2,475	504	1,062	1,915	3,918	143	765	4,998
344	Structural metal products.....	22	205	861	149	335	599	1,648	67	246	1,153
346	Metal stamping and coating.....	17	318	1,341	266	574	948	1,900	74	(D)	(D)
349	Metal products, n.e.c.....	31	2,409	11,232	1,916	3,808	7,706	19,570	892	1,972	10,616
35	Machinery, exc. electrical..	150	22,078	94,296	18,056	36,680	71,443	159,290	6,760	20,841	95,539
354	Metalworking machinery.....	68	6,185	31,484	4,682	10,094	22,153	53,769	3,153	5,526	25,441
355	Special industry mach., n.e.c..	6	407	2,042	344	744	1,627	5,712	303	1,065	5,631
356	General industrial machinery..	10	1,164	5,053	783	1,523	2,903	9,091	218	1,447	7,264
357	Office and store machines.....	5	10,604	38,953	9,230	18,027	32,552	64,338	2,247	(D)	(D)
358	Service and household machines.	5	1,326	5,841	1,027	2,051	4,004	9,171	461	(D)	(D)
359	Miscellaneous machinery parts..	51	1,860	8,339	1,594	3,411	6,574	12,646	296	850	5,278
36	Electrical machinery.....	28	3,259	12,439	2,458	4,945	8,444	18,745	543	3,819	18,202
361	Elec. industrial apparatus.....	13	3,040	11,701	2,299	4,632	7,963	17,450	506	3,656	17,387
366	Communication equipment.....	8	154	592	104	208	370	1,025	17	(D)	(D)
37	Transportation equipment....	30	29,803	142,552	22,908	48,603	100,427	206,554	7,867	15,829	(D)
372	Aircraft and parts.....	28	29,794	142,501	22,901	48,587	100,404	206,473	7,865	(D)	(D)
38	Instruments & related prod..	12	491	1,849	352	672	1,128	3,280	85	2,568	12,607
39	Miscellaneous manufactures <sup>5</sup> .	39	2,325	9,480	1,872	3,684	7,212	17,302	837	2,822	(D)
397	Plastics products, n.e.c.....	5	264	990	201	389	669	1,119	52	(D)	(D)
398	Miscellaneous manufactures <sup>5</sup> ....	19	1,684	7,066	1,362	2,638	5,522	14,134	741	(D)	(D)

See footnotes at end of table.



Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Code	Industry group	Establishments, number	1954							1947	
			All employees		Production workers			Value added by manufacture	Capital expenditures, new	All employees, number	Value added by manufacture
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
			NEW BRITAIN BRISTOL STANDARD METROPOLITAN AREA <sup>7</sup>								
	All industries, total <sup>2</sup> ...	393	43,950	178,017	35,207	68,432	134,555	273,394	15,110	<sup>3</sup> 45,708	<sup>3</sup> 205,103
20	Food and kindred products...	47	485	1,586	292	536	869	2,729	206	(4)	(4)
202	Dairy products.....	19	242	898	131	281	451	1,549	146	(4)	(4)
22	Textile mill products.....	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
23	Apparel & related products..	10	794	1,878	773	1,137	1,810	2,503	14	810	2,960
233	Women's and misses' outerwear..	5	232	439	223	294	413	586	(D)	458	1,838
24	Lumber and wood products....	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	69	(D)
25	Furniture and fixtures.....	14	238	878	197	429	658	1,831	197	71	288
251	Household furniture.....	8	163	616	143	306	490	1,224	125	(D)	(D)
26	Pulp, paper and products....	4	599	2,161	452	851	1,323	2,778	204	564	(D)
27	Printing and publishing....	20	807	3,489	616	1,096	2,558	5,284	113	290	1,646
275	Commercial printing.....	12	542	2,249	478	840	1,925	3,116	92	(D)	(D)
28	Chemicals and products.....	7	184	870	117	240	421	1,386	149	140	(D)
32	Stone, clay, & glass prod...	4	116	487	104	245	378	739	29	159	597
33	Primary metal industries....	19	1,416	6,861	1,195	2,277	4,893	11,191	1,402	1,552	8,373
339	Primary metal industries, nec..	5	564	2,685	500	963	2,004	3,901	921	(D)	(D)
34	Fabricated metal products...	112	13,086	51,597	10,417	20,430	37,886	79,633	3,488	15,899	67,417
342	Cutlery, tools, and hardware...	14	8,910	34,230	6,957	13,456	24,975	51,467	1,683	10,774	43,626
346	Metal stamping and coating....	23	329	1,189	269	493	749	1,698	84	155	705
348	Fabricated wire products.....	25	2,213	9,401	1,817	3,532	6,974	14,108	657	(D)	(D)
35	Machinery, exc. electrical..	94	12,978	56,376	10,349	20,677	46,029	84,926	5,911	16,799	77,372
354	Metalworking machinery.....	54	3,708	17,399	2,849	5,812	16,963	28,225	1,154	3,948	16,667
356	General industrial machinery...	7	214	847	154	313	507	1,350	50	(D)	(D)
359	Miscellaneous mach. parts.....	28	8,999	37,917	7,300	14,508	28,487	55,062	4,704	12,031	56,839
36	Electrical machinery.....	18	5,507	21,833	3,864	7,223	13,261	30,342	1,672	5,060	(D)
361	Elec. industrial apparatus....	10	2,496	10,343	1,683	3,116	5,564	17,059	745	1,634	9,404
37	Transportation equipment....	9	2,286	(D)	2,011	(D)	(D)	(D)	(D)	135	(D)
38	Instruments & related prod..	9	3,311	13,266	3,044	5,826	10,811	19,242	579	2,588	(D)
39	Miscellaneous manufactures <sup>5</sup> ..	16	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1,028	3,561
396	Costume jewelry and notions....	5	1,066	3,481	900	1,624	2,479	5,181	220	(D)	(D)
			NEW HAVEN STANDARD METROPOLITAN AREA <sup>8</sup>								
	All industries, total <sup>2</sup> ...	709	46,566	183,239	36,700	72,021	129,200	298,824	15,615	<sup>3</sup> 41,503	<sup>3</sup> 188,528
20	Food and kindred products...	79	2,773	11,866	1,488	3,070	5,126	19,647	1,335	(4)	(4)
201	Meat products.....	11	729	3,038	547	1,237	2,141	3,515	408	581	1,991
202	Dairy products.....	16	992	4,794	367	699	1,241	8,505	686	(4)	(4)
205	Bakery products.....	23	538	1,994	289	570	849	2,583	133	(D)	(D)
208	Beverages.....	16	430	1,828	216	431	739	4,471	89	190	936
21	Tobacco manufactures.....	9	142	362	120	212	252	558	22	264	809
212	Cigars.....	9	142	362	120	212	252	558	22	264	809
22	Textile mill products.....	7	644	2,465	557	1,099	1,813	4,379	84	618	2,768
23	Apparel & related products..	120	4,823	12,285	4,415	7,294	9,995	18,975	145	4,473	15,107
231	Men's and boys' suits and coats	4	112	374	99	182	311	483	(D)	(D)	(D)
232	Men's and boys' furnishings...	25	1,294	2,992	1,229	1,921	2,647	4,152	16	1,747	5,549
233	Women's and misses' outerwear..	50	1,918	4,518	1,819	2,840	4,021	5,538	62	1,531	4,090
234	Women's undergarments.....	11	853	2,418	710	1,380	1,690	5,881	26	668	3,302
236	Children's outerwear.....	4	273	1,025	227	367	567	1,481	(D)	147	433
239	Fabricated textiles, n.e.c.....	19	266	760	230	425	583	1,131	30	(D)	(D)
24	Lumber and wood products....	12	212	519	114	236	369	917	9	(D)	(D)
249	Miscellaneous wood products....	5	153	274	69	141	203	628	(D)	(D)	(D)
25	Furniture and fixtures.....	35	626	2,272	535	1,089	1,635	2,938	72	393	1,783
251	Household furniture.....	26	562	2,087	484	998	1,519	2,671	60	247	1,279
26	Pulp, paper and products....	21	2,090	10,137	1,720	3,706	7,540	16,015	1,422	1,838	(D)

See footnotes at end of table.

## MANUFACTURES--AREA STATISTICS

Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Code	Industry group	Establish- ments, number	1954							1947	
			All employees		Production workers			Value added by manufacture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
27	Printing and publishing....	76	2,546	10,849	1,744	3,577	7,767	16,346	568	2,074	9,831
271	Newspapers.....	6	605	2,305	250	461	1,253	4,096	(D)	(D)	(D)
275	Commercial printing.....	38	991	4,312	850	1,742	3,682	5,638	285	834	2,011
276	Lithographing.....	8	274	1,421	194	413	988	2,056	47	(D)	(D)
279	Printing trade services.....	8	413	1,912	341	728	1,481	2,856	99	235	1,151
28	Chemicals and products.....	23	299	1,565	188	390	719	3,306	173	492	2,936
29	Petroleum and coal products..	3	294	(D)	239	(D)	(D)	(D)	(D)	(D)	(D)
30	Rubber products.....	13	2,965	12,226	2,071	4,070	7,300	27,183	2,362	2,919	13,869
31	Leather and leather goods...	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
32	Stone, clay, & glass prod...	20	626	2,674	510	979	1,785	4,122	437	749	3,302
327	Concrete and plaster products..	7	262	1,187	219	382	715	1,987	165	242	1,408
33	Primary metal industries....	30	4,023	17,541	3,169	6,447	12,352	29,241	1,583	4,699	19,340
336	Nonferrous foundries.....	11	432	1,850	364	762	1,328	2,782	165	(D)	(D)
339	Primary metal industries, nec..	11	2,165	9,765	1,584	3,175	6,324	18,131	1,031	2,433	12,666
34	Fabricated metal products...	83	3,601	14,207	2,973	5,649	9,807	21,023	939	4,208	20,764
342	Cutlery, tools, and hardware...	12	2,273	8,935	1,883	3,639	6,243	12,830	566	2,913	12,671
344	Structural metal products.....	22	441	2,010	334	690	1,296	3,063	88	393	2,740
346	Metal stamping and coating....	13	216	596	182	238	413	887	61	322	1,141
348	Fabricated wire products.....	8	342	1,450	292	547	972	1,838	139	(D)	(D)
349	Metal products, n.e.c.....	20	301	1,159	257	494	833	2,333	80	176	1,005
35	Machinery, exc. electrical..	88	3,581	15,210	2,741	5,614	10,442	23,342	965	2,606	12,311
354	Metalworking machinery.....	30	989	4,260	768	1,516	2,882	6,481	295	1,094	4,504
356	General industrial machinery...	4	257	1,197	183	386	837	1,737	(D)	369	1,947
359	Miscellaneous machinery parts..	46	1,389	5,622	1,076	2,220	4,020	7,437	301	414	2,040
36	Electrical machinery.....	25	2,586	10,482	1,824	3,710	6,265	17,999	669	2,847	11,025
361	Elec. industrial apparatus....	17	1,283	5,029	935	1,922	3,186	8,635	331	1,127	5,184
37	Transportation equipment....	15	4,441	19,206	3,803	7,898	15,569	32,835	1,021	995	(D)
372	Aircraft and parts.....	5	4,056	17,682	3,540	7,369	14,653	30,602	953	(D)	(D)
38	Instruments & related prod..	8	1,240	3,750	924	1,879	2,786	6,191	211	2,688	(D)
39	Miscellaneous manufactures <sup>5</sup> .	40	8,944	33,778	7,469	14,441	26,386	50,463	3,503	7,825	37,114
396	Costume jewelry and notions....	6	490	1,702	403	770	1,235	4,623	59	(D)	(D)
397	Plastics products, n.e.c.....	6	154	526	137	304	372	839	50	(D)	(D)
"All manufacturing" totals for the Springfield-Holyoke Standard Metropolitan Area (which includes Enfield town in Hartford County, Connecticut) appear in Table 3. Industry group statistics for this area are shown in the 1954 Census of Manufactures report for the State of Massachusetts											
WATERBURY STANDARD METROPOLITAN AREA <sup>9</sup>											
	All industries, total <sup>2</sup> ...	391	42,186	179,067	33,970	68,261	129,487	307,565	15,648	<sup>3</sup> 43,388	<sup>3</sup> 206,291
20	Food and kindred products...	40	961	4,167	551	1,126	1,936	10,083	188	(4)	(4)
202	Dairy products.....	10	182	845	70	175	285	1,409	71	(4)	(4)
208	Beverages.....	8	150	532	54	111	139	563	14	(D)	(D)
21	Tobacco products.....	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	24	59
22	Textile mill products.....	5	960	3,599	848	2,160	2,947	7,363	319	(D)	(D)
23	Apparel & related products..	15	1,018	2,472	977	1,922	2,279	2,797	22	753	2,893
233	Women's and misses' outerwear..	6	346	1,002	332	553	939	1,128	9	199	915
24	Lumber and wood products....	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
25	Furniture and fixtures.....	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	46	(D)
26	Pulp, paper and products....	3	320	1,297	240	548	900	1,983	29	380	(D)
27	Printing and publishing....	28	787	3,319	505	945	2,019	4,749	87	717	3,697
275	Commercial printing.....	14	403	1,810	334	598	1,300	2,272	38	(D)	(D)
28	Chemicals and products.....	8	1,858	(D)	1,149	(D)	(D)	(D)	(D)	1,755	(D)
30	Rubber products.....	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3,864	(D)
32	Stone, clay, & glass prod...	10	392	1,248	316	564	768	2,141	65	445	1,658
323	Products of purchased glass....	4	268	695	246	437	546	1,072	11	(D)	(D)
33	Primary metal industries....	19	7,363	34,193	6,020	11,817	25,825	65,999	3,462	10,155	47,606
335	Nonferrous rolling and drawing.	12	6,771	31,824	5,522	10,881	24,022	61,737	3,407	(D)	(D)

See footnotes at end of table.



Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Code	Industry group	Establishments, number	1954							1947	
			All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
34	Fabricated metal products...	123	6,558	28,178	5,405	10,881	21,153	43,266	2,277	10,263	42,933
342	Cutlery, tools, and hardware...	4	296	1,125	254	487	847	2,136	45	(D)	(D)
344	Structural metal products.....	8	138	624	110	213	449	837	23	115	616
346	Metal stamping and coating.....	46	2,839	12,657	2,354	4,864	9,595	23,564	1,451	5,962	23,575
348	Fabricated wire products.....	4	117	362	103	190	291	421	16	(D)	(D)
35	Machinery, exc. electrical..	68	2,983	14,135	2,306	4,916	10,090	25,561	1,143	2,325	10,773
354	Metalworking machinery.....	40	1,399	7,352	1,135	2,542	5,486	12,733	543	1,128	5,244
359	Miscellaneous machinery parts..	19	781	3,321	600	1,243	2,353	5,966	292	(D)	(D)
36	Electrical machinery.....	7	916	3,634	660	1,294	2,010	6,689	141	124	(D)
37	Transportation equipment....	3	482	(D)	368	(D)	(D)	(D)	(D)	(D)	(D)
38	Instruments & related prod..	10	3,773	15,023	2,955	5,925	10,380	23,179	1,289	6,816	28,601
387	Watches and clocks.....	6	2,313	8,390	1,929	3,715	6,294	11,079	267	(D)	(D)
39	Miscellaneous manufactures <sup>5</sup> .	40	8,597	34,538	7,193	13,816	25,115	51,304	2,776	3,962	16,462
396	Costume jewelry and notions....	16	4,781	20,225	3,819	7,418	13,987	30,620	2,239	2,619	10,535

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>The Bridgeport Standard Metropolitan Area consists of Bridgeport city; Fairfield, Stratford, and Trumbull towns in Fairfield County, Connecticut; Milford town in New Haven County, Connecticut.

<sup>2</sup>In order to avoid disclosing figures for individual companies, the statistics for some industry groups (3-digit) are not shown. Industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "All industries" line.

<sup>3</sup>The 1954 and 1947 "All industries" totals are not strictly comparable because of differences in scope between the two years in Major Group 20 (see footnote 3).

<sup>4</sup>Comparable data for Major Group 20 are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude plants processing and distributing fluid milk which in 1954 were classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
20	Food and kindred products except Subgroup 202 Dairy Products:				
	Bridgeport Standard Metropolitan Area.....	1,243	6,734	1,300	5,700
	Hartford Standard Metropolitan Area.....	2,043	14,076	125	850
	New Britain-Bristol Standard Metropolitan Area.....	243	1,180	475	2,450
	New Haven Standard Metropolitan Area.....	1,781	11,142	1,200	4,800
	Waterbury Standard Metropolitan Area.....	779	8,674	1,150	10,750

<sup>5</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)

<sup>6</sup>The Hartford Standard Metropolitan Area consists of Hartford city; Avon, Bloomfield, East Hartford, Farmington, Glastonbury, Manchester, Newington, Rocky Hill, Simsbury, South Windsor, West Hartford, Wethersfield, and Windsor towns in Hartford County, Connecticut.

<sup>7</sup>The New Britain-Bristol Standard Metropolitan Area consists of Bristol and New Britain cities; Berlin, Plainville, and Southington towns in Hartford County, Connecticut; Plymouth town in Litchfield County, Connecticut.

<sup>8</sup>The New Haven Standard Metropolitan Area consists of New Haven city; Branford, East Haven, Hamden, North Haven, Orange, West Haven, and Woodbridge towns in New Haven County, Connecticut.

<sup>9</sup>The Waterbury Standard Metropolitan Area consists of Waterbury city; Naugatuck borough; Beacon Falls, Cheshire, Middlebury, Prospect, and Wolcott towns in New Haven County, Connecticut; Thomastown and Watertown towns in Litchfield County, Connecticut.

## MANUFACTURES—AREA STATISTICS

Table 6.—GENERAL STATISTICS FOR PRINCIPAL INDUSTRIAL COUNTIES, BY MAJOR INDUSTRY GROUP: 1954 AND 1947

(Principal industrial counties include all counties with 20,000 or more manufacturing employees. For explanation of column captions see Introduction)

Code	Major industry group	1954								1947	
		Establish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendit- ures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
		FAIRFIELD COUNTY									
	All industries, total <sup>1</sup> .....	1,479	105,895	448,790	80,611	159,182	306,316	817,769	28,469	<sup>2</sup> 112,555	<sup>2</sup> 561,112
20	Food and kindred products.....	110	3,348	13,333	1,899	3,731	6,367	26,893	1,032	2,051	10,934
22	Textile mill products.....	70	5,859	19,777	4,759	8,529	14,469	28,126	510	9,081	45,443
23	Apparel and related products...	134	6,783	19,249	6,172	11,048	15,996	34,807	249	6,257	25,653
24	Lumber and wood products.....	37	272	846	224	408	634	1,148	56	252	872
25	Furniture and fixtures.....	36	501	1,763	407	823	1,216	2,591	43	369	1,529
26	Pulp, paper and products.....	28	1,592	5,933	1,219	2,566	4,061	9,422	278	1,267	5,997
27	Printing and publishing.....	131	4,534	21,742	2,894	5,786	13,360	30,203	1,708	4,098	31,720
28	Chemicals and products.....	54	3,179	13,162	2,166	4,189	7,420	34,555	873	2,695	23,735
29	Petroleum and coal products....	4	191	888	162	358	679	1,917	217	...	...
30	Rubber products.....	20	3,097	13,218	2,405	4,931	9,392	23,559	1,808	2,819	14,272
31	Leather and leather goods.....	23	1,417	4,275	1,292	2,422	3,323	5,756	170	1,253	4,943
32	Stone, clay, & glass products..	33	1,881	8,879	1,470	3,075	6,634	13,428	838	1,991	9,181
33	Primary metal industries.....	67	7,715	34,952	6,279	12,266	25,680	60,935	4,806	9,197	45,532
34	Fabricated metal products.....	174	8,329	34,446	6,825	13,490	24,790	56,403	2,081	13,666	54,881
35	Machinery, except electrical...	282	20,387	98,221	16,023	32,321	71,646	193,223	6,287	19,609	108,711
36	Electrical machinery.....	76	13,533	56,709	9,485	18,921	34,671	118,236	3,211	16,001	86,380
37	Transportation equipment.....	43	11,280	51,604	7,766	16,015	32,540	77,183	651	10,418	(D)
38	Instruments and related prod...	40	4,943	21,691	3,421	6,974	13,252	41,069	2,087	2,770	15,115
39	Miscellaneous manufactures <sup>3</sup> ....	113	6,972	27,888	5,664	11,194	20,021	57,974	1,546	8,696	39,658
		HARTFORD COUNTY									
	All industries, total <sup>1</sup> .....	1,168	130,848	560,875	102,218	205,379	403,445	873,906	41,740	<sup>2</sup> 113,820	<sup>2</sup> 525,706
20	Food and kindred products.....	159	3,713	14,576	2,024	4,148	6,873	25,894	1,515	2,379	13,447
22	Textile mill products.....	14	4,466	16,930	3,607	6,815	12,516	20,667	675	6,658	(D)
23	Apparel and related products...	42	1,934	5,280	1,802	2,920	4,474	8,193	130	2,212	9,298
24	Lumber and wood products.....	32	435	1,859	359	783	1,321	2,980	76	380	1,743
25	Furniture and fixtures.....	46	772	3,099	632	1,327	2,231	5,241	373	492	2,342
26	Pulp, paper and products.....	27	1,818	7,818	1,488	3,178	5,584	13,856	1,521	1,773	8,705
27	Printing and publishing.....	117	3,624	15,441	2,294	4,354	8,973	24,755	1,238	2,652	14,429
28	Chemicals and products.....	27	1,307	5,322	953	1,933	3,219	12,046	668	1,429	6,973
32	Stone, clay, & glass products..	22	794	3,171	635	1,373	2,232	5,097	331	1,431	9,268
33	Primary metal industries.....	38	2,737	12,513	2,277	4,406	9,012	20,523	1,506	2,916	15,116
34	Fabricated metal products.....	203	17,139	70,251	13,673	27,109	50,809	110,587	4,766	20,030	90,205
35	Machinery except electrical....	257	35,249	151,504	28,544	57,640	117,992	245,561	12,731	37,660	173,073
36	Electrical machinery.....	47	8,603	33,778	6,165	11,917	21,276	48,285	2,165	8,685	(D)
37	Transportation equipments.....	41	39,862	187,597	30,593	63,786	132,197	275,969	11,960	15,994	(D)
38	Instruments and related prod...	19	3,681	14,180	3,221	6,161	11,361	20,955	639	5,033	(D)
39	Miscellaneous manufactures <sup>3</sup> ....	58	4,465	16,686	3,742	7,124	12,743	31,626	1,332	3,859	14,164
		NEW HAVEN COUNTY									
	All industries, total <sup>1</sup> .....	1,459	111,938	458,353	89,688	178,890	333,995	779,643	37,611	<sup>2</sup> 110,611	<sup>2</sup> 530,834
20	Food and kindred products.....	162	4,155	17,289	2,334	4,818	7,851	32,110	1,692	2,936	18,946
22	Textile mill products.....	22	1,589	6,045	1,432	3,169	4,854	12,901	458	1,407	5,881
23	Apparel and related products...	154	6,661	16,957	6,119	10,535	13,968	24,769	278	6,072	20,882
24	Lumber and wood products.....	31	300	719	192	409	549	1,264	57	217	731
25	Furniture and fixtures.....	46	832	3,011	701	1,410	2,145	4,628	111	440	1,920
26	Pulp, paper and products.....	28	2,488	11,710	2,023	4,394	8,627	18,342	1,456	2,346	14,478
27	Printing and publishing.....	136	4,131	17,500	2,800	5,647	11,829	26,951	920	3,475	16,915
28	Chemicals and products.....	38	2,963	15,782	1,975	4,158	9,217	46,950	1,813	2,906	18,725
30	Rubber products.....	20	8,924	36,477	7,194	14,641	27,178	65,051	5,071	6,822	(D)
32	Stone, clay, & glass products..	44	1,163	4,485	933	1,778	2,926	7,727	583	1,272	5,211
33	Primary metal industries.....	68	14,674	65,966	12,032	23,601	49,548	119,520	6,539	20,317	93,344
34	Fabricated metal products.....	265	12,403	50,422	10,185	20,171	36,692	77,032	3,236	17,385	76,331
35	Machinery except electrical....	206	11,433	52,130	9,074	18,997	39,188	84,593	4,871	11,535	57,079
36	Electrical machinery.....	49	5,814	22,492	4,275	8,545	14,533	43,424	1,225	5,158	24,056
37	Transportation equipment.....	27	5,732	24,619	4,929	10,165	20,000	41,663	1,107	1,056	(D)
38	Instruments and related prod...	26	5,051	18,914	3,742	7,584	12,777	31,288	1,529	8,569	33,544
39	Miscellaneous manufactures <sup>3</sup> ....	119	23,072	91,612	19,284	37,981	70,556	137,496	6,550	18,078	95,445

See footnotes at end of table.



Table 6.—GENERAL STATISTICS FOR PRINCIPAL INDUSTRIAL COUNTIES, BY MAJOR INDUSTRY GROUP: 1954 AND 1947—Continued

(Principal industrial counties include all counties with 20,000 or more manufacturing employees. For explanation of column captions see Introduction)

Code	Major industry group	1954								1947	
		Establish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendit- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
		NEW LONDON COUNTY									
	All industries, total <sup>1</sup> .....	287	22,658	91,788	19,377	39,258	73,632	146,371	9,629	<sup>2</sup> 17,900	<sup>2</sup> 79,354
20	Food and kindred products.....	42	513	1,703	310	638	895	2,955	199	(NA)	(NA)
22	Textile mill products.....	42	5,305	18,252	4,736	9,132	14,839	27,403	1,729	(NA)	(NA)
27	Apparel and related products...	27	1,089	2,425	1,022	1,808	2,035	3,141	32	(NA)	(NA)
25	Furniture and fixtures.....	8	162	465	136	226	329	659	18	(NA)	(NA)
26	Pulp, paper, and products.....	15	1,850	8,052	1,497	3,138	5,916	14,454	575	(NA)	(NA)
27	Printing and publishing.....	26	634	2,596	293	537	1,138	4,365	127	(NA)	(NA)
28	Chemicals and products.....	7	1,399	6,649	1,183	2,692	5,443	20,780	4,565	(NA)	(NA)
31	Leather and leather goods.....	12	867	2,262	770	1,523	1,800	2,769	93	(NA)	(NA)
33	Primary metal industries.....	8	476	1,831	385	874	1,317	3,981	355	(NA)	(NA)
34	Fabricated metal products.....	25	1,790	6,854	1,485	3,090	5,069	10,379	473	(NA)	(NA)
35	Machinery, except electrical...	17	1,780	8,015	1,382	2,853	5,710	15,075	264	(NA)	(NA)
36	Electrical machinery.....	6	258	914	225	446	725	1,272	27	(NA)	(NA)

D Withheld to avoid disclosing data for individual companies.

NA Not available.

<sup>1</sup>In order to avoid disclosing data for individual companies, the statistics for some industry groups are not shown. Industry groups reporting less than 100 employees are also omitted. They are included, however, in the "All industries" line.<sup>2</sup>The 1954 and 1947 "All industries" totals are not strictly comparable because of differences in coverage of loggers and fluid milk distributors. See discussion in Introduction and footnote to Table 4 for comparable figures at the State level.<sup>3</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)

## MANUFACTURES—AREA STATISTICS

Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954

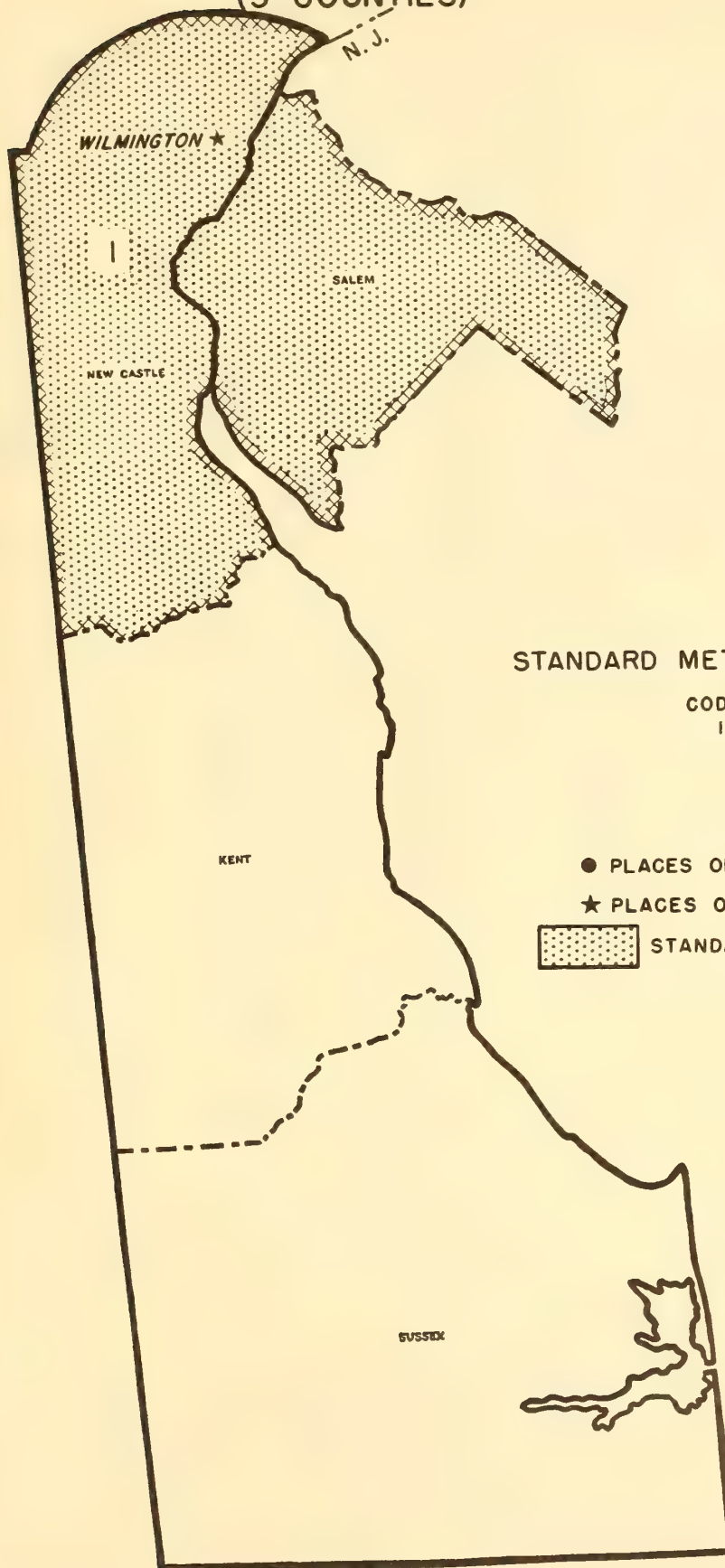
20 Food and kindred products	26 Pulp, paper and products	32 Stone, clay, and glass products	38 Instruments and related products
21 Tobacco manufactures	27 Printing and publishing	33 Primary metal industries	39 Miscellaneous manufactures (Includes Group 19 Ordnance and accessories)
22 Textile mill products	28 Chemicals and products	34 Fabricated metal products	
23 Apparel and related products	29 Petroleum and coal products	35 Machinery, except electrical	
24 Lumber and wood products	30 Rubber products	36 Electrical machinery	
25 Furniture and fixtures	31 Leather and leather goods	37 Transportation equipment	

(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establish- ments. total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Connecticut, total.....	5,090	559	20	224	385	170	154	110	459	149	12	55	46	131	194	763	861	212	143	97	346
1 to 4 employees.....	1,717	235	10	29	80	109	66	17	185	52	3	10	7	54	40	277	315	36	47	19	126
5 to 9 employees.....	764	95	5	16	42	26	28	19	85	30	4	9	11	16	20	115	152	24	17	13	37
10 to 19 employees.....	744	95	2	25	52	18	25	13	78	24	1	4	3	17	29	118	144	25	20	13	38
20 to 49 employees.....	795	75	1	59	94	10	21	24	51	16	1	8	4	26	32	124	120	38	21	16	54
50 to 99 employees.....	422	35	2	28	79	4	10	13	31	9	1	8	13	9	22	48	41	29	8	6	26
100 to 249 employees.....	346	15	...	44	32	3	4	14	19	8	1	6	6	5	25	50	41	24	7	9	33
250 to 499 employees.....	145	8	...	13	4	...	...	8	7	6	1	3	2	3	12	16	14	16	9	12	11
500 to 999 employees.....	89	1	...	6	2	...	...	2	3	2	...	4	...	...	8	7	18	12	5	6	13
1,000 to 2,499 employees.....	47	...	...	3	...	...	...	...	...	2	...	2	...	1	6	6	9	7	3	3	5
2,500 employees and over.....	21	...	...	1	...	...	...	...	...	...	...	1	...	...	...	2	7	1	6	...	3
Fairfield:																					
1 to 19 employees.....	904	74	3	26	59	34	30	13	99	38	2	5	8	25	34	114	195	30	26	18	71
20 to 99 employees.....	390	30	1	30	61	3	5	12	24	8	1	6	10	6	19	39	62	25	8	12	28
100 employees and over.....	185	6	...	14	14	...	1	3	8	8	1	9	5	2	14	21	25	21	9	10	14
Hartford:																					
1 to 19 employees.....	780	118	4	7	23	28	34	13	85	16	2	5	6	13	23	136	173	22	19	12	41
20 to 99 employees.....	244	33	...	3	12	3	11	9	24	8	...	1	1	7	7	44	45	13	11	3	9
100 employees and over.....	144	8	...	4	7	1	1	5	8	3	...	...	...	2	8	23	39	12	11	4	8
Litchfield:																					
1 to 19 employees.....	180	35	...	3	4	19	6	2	15	7	1	...	...	5	1	29	40	4	1	...	8
20 to 99 employees.....	50	4	...	1	...	2	1	...	2	...	...	...	...	3	4	16	6	6	...	...	5
100 employees and over.....	38	...	...	6	...	1	1	...	...	...	...	...	...	1	4	4	5	7	...	5	4
Middlesex:																					
1 to 19 employees.....	135	15	...	4	10	13	6	3	12	5	...	1	2	6	2	21	18	...	11	1	5
20 to 99 employees.....	71	3	...	8	5	3	1	1	3	4	1	2	...	2	...	13	8	6	3	1	7
100 employees and over.....	21	...	...	2	1	...	...	1	1	1	...	1	...	1	...	4	1	1	1	...	6
New Haven:																					
1 to 19 employees.....	941	125	10	9	67	28	35	13	103	31	3	10	1	26	23	185	157	23	16	12	64
20 to 99 employees.....	339	27	2	7	76	2	10	9	23	4	...	4	1	15	22	54	34	13	4	5	27
100 employees and over.....	179	10	...	6	11	1	1	6	10	3	1	6	...	3	23	26	15	13	7	9	28
New London:																					
1 to 19 employees.....	170	35	...	9	8	16	6	3	21	4	...	2	4	7	6	17	11	3	9	1	8
20 to 99 employees.....	71	7	...	18	16	...	2	5	3	...	...	1	5	1	...	6	2	2	2	...	1
100 employees and over.....	46	...	...	15	3	...	...	7	2	3	...	...	3	...	2	2	4	1	1	2	1
Tolland:																					
1 to 19 employees.....	48	12	...	3	...	6	1	...	3	4	...	...	...	1	...	2	10	1	1	...	4
20 to 99 employees.....	18	...	...	10	...	...	1	...	1	...	...	...	...	...	...	...	2	1	1	1	1
100 employees and over.....	11	...	...	8	...	...	...	1	...	...	...	...	...	...	...	...	...	1	...	...	1
Windham:																					
1 to 19 employees.....	66	11	...	9	3	9	1	2	10	1	...	...	...	4	...	6	7	2	1	...	...
20 to 99 employees.....	34	6	...	10	3	1	...	1	2	1	...	2	...	1	2	...	2	1	...	...	2
100 employees and over.....	25	...	...	12	2	...	...	1	...	...	...	...	...	...	...	1	...	4	1	1	3



DELAWARE  
(3 COUNTIES)



STANDARD METROPOLITAN AREA

CODE  
1 WILMINGTON

LEGEND

● PLACES OF 25,000 TO 100,000

★ PLACES OF 100,000 AND OVER

 STANDARD METROPOLITAN AREA

## MANUFACTURES—AREA STATISTICS

Table 1.—MANUFACTURING EMPLOYMENT AT OPERATING ESTABLISHMENTS AND CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARIES FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS

(This table includes data for all manufacturing employees including those located in central administrative offices and auxiliaries. Tables 2-7 in this report include data for operating establishments only. For explanation of column captions see Introduction)

State, standard metropolitan areas, and year <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	(Number)	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
Delaware:						
1954.....	54,530	267,354	39,418	151,269	15,112	116,085
1953 <sup>2</sup> .....	58,550	255,801	43,493	164,641	15,057	91,160
1952 <sup>2</sup> .....	58,670	239,593	45,367	164,913	<sup>3</sup> 13,303	<sup>3</sup> 74,680
1951 <sup>2</sup> .....	56,809	217,657	43,506	142,977	13,303	74,680
Standard metropolitan areas:						
Wilmington <sup>4</sup> .....	53,089	287,695	37,919	170,700	15,170	116,995

<sup>1</sup>Comparable data for administrative offices and auxiliaries are not available for the years prior to 1951. Similar data for standard metropolitan areas are available only for 1954.<sup>2</sup>The employment figures for operating manufacturing establishments for 1951-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period. The employment figures for administrative and auxiliary units were compiled chiefly from Bureau of Old-Age and Survivors Insurance records and are not strictly comparable with figures for these units that were collected by the Bureau of the Census for the year 1954.<sup>3</sup>The 1951 data are shown for 1952 since auxiliary and administrative unit data were not collected in 1952.<sup>4</sup>The Wilmington Standard Metropolitan Area consists of New Castle County, Delaware; and Salem County, New Jersey.

Table 2.—GENERAL STATISTICS FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Year	Establish- ments, number	All employees		Production workers		Value added by manufacture (\$1,000)	
		Number	Payroll (\$1,000)	Number	Wages (\$1,000)		
DELAWARE							
1954 <sup>1</sup> .....	556	39,418	151,269	30,988	104,882	353,083	
1953 <sup>2</sup> .....	}	43,493	164,641	33,817	118,736	378,975	
1952 <sup>2</sup> .....		45,367	164,913	36,530	121,142	372,445	
1951 <sup>2</sup> .....		43,506	142,977	35,578	105,733	326,715	
1950 <sup>2</sup> .....		(NA)	40,928	121,435	34,116	89,388	287,592
1949 <sup>2</sup> .....			37,075	106,528	30,456	77,601	229,813
1947.....	483	34,738	92,858	29,275	70,578	183,073	
1939.....	416	23,360	29,114	19,825	21,163	54,085	
1937.....	359	23,731	29,321	21,052	22,992	58,404	
1935.....	339	18,764	19,962	16,532	15,259	36,411	
1933.....	328	(NA)	(NA)	{	15,259	35,986	
1931.....	383				17,202	44,944	
1929.....	460	26,556	37,407	23,552	29,063	69,151	
1927.....	446	(NA)	(NA)	{	21,324	60,867	
1925.....	419				20,704	54,784	
1923.....	453	{	{	{	23,116	58,216	
1921.....	460				17,754	36,638	
1919.....	653	33,231	44,914	28,994	37,214	79,547	
1914.....	797	24,757	14,755	22,119	11,359	24,333	
1909.....	726	23,262	12,618	21,238	10,296	21,902	
1904.....	631	19,926	9,787	18,475	8,158	16,276	
1899.....	633	21,751	9,794	20,562	8,457	16,596	
WILMINGTON STANDARD METROPOLITAN AREA <sup>3</sup>							
1954 <sup>1</sup> .....	344	37,919	170,700	28,728	114,450	387,324	
1947.....	(NA)	36,506	(NA)	(NA)	(NA)	207,254	

NA Not available.

<sup>1</sup>The 1954 figures include data for establishments engaged in the processing and distribution of fluid milk, Industry Group 202, Dairy Products. These establishments were not included in the figures for the Annual Survey years 1949-1953 or earlier Census years. In addition, the 1954 Census and Annual Survey years include data for Logging camps and contractors, Industry 2411, which were not included within the scope of the 1947 Census. See footnotes to Table 4 for comparable 1954 and 1947 totals. There were also a number of changes in the definition of manufacturing industries during earlier Census years that affect the comparability of the historical series. Among the more important of these were: figures for 1935 and later years exclude data for "Railroad repair shops" and "Manufactured gas" which were included in 1899-1933 figures; the minimum size of establishment included for 1954 and 1947 was one employee, for 1939-1921 manufacturing establishments reporting value of shipments of \$5,000 or more were within scope whereas for 1919 and earlier years the cutoff was \$500. (This change in procedure has not appreciably affected the comparability of the historical data except for the figures on number of establishments.)<sup>2</sup>The employment and payroll figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period.<sup>3</sup>There are 53,089 manufacturing employees (including central administrative office and auxiliary unit employment) in the Wilmington Standard Metropolitan Area (see Table 1). The data in this table represent employment at operating manufacturing establishments.



## DELAWARE

107-3

Table 3.--GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
Delaware, total.....	318,085	556	39,418	151,269	30,988	60,451	104,882	353,083	23,375	<sup>1</sup> 34,738	<sup>1</sup> 183,073
STANDARD METROPOLITAN AREAS											
Wilmington area.....	268,387	344	37,919	170,700	28,728	55,882	114,450	387,324	24,681	36,506	207,254
Portion in Delaware.....	218,879	295	27,278	116,099	21,025	41,042	80,453	251,617	13,008	24,175	121,594
Portion in New Jersey....	49,508	49	10,641	54,600	7,703	14,840	33,996	135,707	11,672	12,331	85,660
COUNTIES											
Kent.....	37,870	69	3,447	8,119	2,879	5,821	6,140	24,014	867	3,082	14,917
New Castle.....	218,879	295	27,278	116,099	21,025	41,042	80,453	251,617	13,008	24,175	121,594
Sussex.....	61,336	192	8,692	27,050	7,083	13,588	18,288	77,450	9,498	7,481	46,562
CITIES WITH 10,000 INHAB- ITANTS OR MORE											
Wilmington.....	110,356	184	13,372	54,476	10,410	19,739	36,925	85,302	3,413	15,912	71,342

<sup>1</sup>The 1947 data are not strictly comparable with the figures shown for 1954 due to differences in coverage of loggers and fluid milk distributors. See discussion in Introduction and footnotes to Table 4.

## MANUFACTURES—AREA STATISTICS

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establish- ments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
	All industries, total <sup>1</sup> ...	556	209	39,418	151,269	30,988	60,451	104,882	353,083	( <sup>2</sup> )	23,375	<sup>3</sup> 34,738	<sup>3</sup> 183,073
20	Food and kindred products..	142	63	6,065	17,300	4,823	9,206	11,227	37,509	( <sup>2</sup> )	4,489	( <sup>4</sup> )	( <sup>4</sup> )
201	Meat products.....	28	14	1,794	4,385	1,622	3,186	3,564	7,877	( <sup>2</sup> )	399	1,713	5,514
2015	Poultry dressing plants.....	14	10	1,492	3,302	1,385	2,685	2,768	5,949	52,486	301	1,300	4,004
202	Dairy products.....	27	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2027	Fluid milk and other products..	17	6	547	2,234	257	547	891	3,803	9,566	221	( <sup>4</sup> )	( <sup>4</sup> )
203	Canned and frozen foods.....	33	26	2,143	4,304	1,938	3,432	3,429	7,894	( <sup>2</sup> )	372	2,126	6,454
2033	Canned fruits and vegetables...	23	18	1,548	2,881	1,402	2,326	2,318	5,151	13,886	240	1,677	5,328
2037	Frozen fruits and vegetables...	4	4	411	1,042	368	817	794	2,116	5,294	127	356	923
204	Grain mill products.....	19	8	797	3,301	547	1,113	1,976	10,836	( <sup>2</sup> )	2,752	340	3,558
2042	Prepared animal feeds.....	12	8	750	3,179	505	1,019	1,866	10,702	58,128	2,729	324	(D)
205	Bakery products.....	11	3	307	1,394	176	363	616	2,607	5,167	96	378	2,360
2051	Bread and related products....	11	3	307	1,394	176	363	616	2,607	5,167	96	378	2,360
208	Beverages.....	14	4	241	942	126	261	342	2,019	( <sup>2</sup> )	(D)	324	2,381
21	Tobacco manufactures.....	1	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
22	Textile mill products.....	30	11	2,657	9,397	2,240	4,454	6,827	16,245	( <sup>2</sup> )	499	2,772	12,320
225	Knitting mills.....	20	4	421	1,133	387	747	959	1,811	( <sup>2</sup> )	85	307	(D)
229	Miscellaneous textile goods..	4	2	492	1,566	443	849	1,267	2,403	( <sup>2</sup> )	61	(D)	(D)
23	Apparel and related prod- ucts.....	34	22	3,265	7,191	2,816	5,407	5,725	22,037	( <sup>2</sup> )	616	2,480	11,269
232	Men's and boys' furnishings..	5	5	852	1,770	814	1,481	1,538	3,307	( <sup>2</sup> )	(D)	581	1,225
239	Fabricated textiles, n.e.c....	11	1	156	339	143	273	259	462	( <sup>2</sup> )	12	(D)	(D)
24	Lumber and wood products...	64	10	1,000	2,117	917	1,722	1,784	3,465	( <sup>2</sup> )	123	( <sup>4</sup> )	( <sup>4</sup> )
2411	Logging camps and contractors	18	1	102	144	86	132	133	370	825	35	( <sup>4</sup> )	( <sup>4</sup> )
2421	Sawmills and planing mills.....	34	5	486	948	450	844	777	1,419	2,716	33	416	(D)
25	Furniture and fixtures.....	7	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	15	(D)
26	Pulp, paper and products...	11	9	832	3,304	717	1,650	2,728	8,241	( <sup>2</sup> )	486	819	8,050
261	Pulp, paper and board.....	6	6	451	1,834	398	923	1,555	3,772	10,284	309	(D)	(D)
2612	Paper and paper board mills..	6	6	451	1,834	398	923	1,555	3,772	10,284	309	464	4,672
27	Printing and publishing....	49	12	1,323	6,003	939	1,705	4,069	8,929	( <sup>2</sup> )	211	875	4,038
2711	Newspapers.....	17	4	676	3,262	415	742	2,047	4,784	6,265	132	474	2,253
2751	Commercial printing.....	22	5	417	1,638	363	658	1,363	2,230	3,915	65	239	(D)
28	Chemical and products.....	37	16	6,007	27,416	4,287	8,601	17,532	101,706	( <sup>2</sup> )	9,787	7,040	59,863
282	Organic chemicals.....	11	9	3,726	16,873	2,631	5,145	10,471	55,857	( <sup>2</sup> )	(D)	4,019	33,881
29	Petroleum and coal products	5	2	127	686	101	238	473	1,173	( <sup>2</sup> )	153	143	(D)
30	Rubber products.....	4	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
31	Leather and leather goods..	12	9	1,994	7,463	1,705	3,305	5,914	12,025	( <sup>2</sup> )	211	3,076	15,901
3111	Leather tanning and finishing	7	6	1,704	6,617	1,456	2,843	5,277	10,841	22,634	140	2,667	(D)
32	Stone, clay, and glass prod- ucts.....	28	7	522	1,773	444	893	1,290	3,213	( <sup>2</sup> )	428	259	1,011
327	Concrete and plaster products	22	4	206	651	168	324	388	1,087	2,153	58	(D)	(D)
3271	Concrete products.....	22	4	206	651	168	324	388	1,087	2,153	58	166	(D)
33	Primary metal industries...	7	6	2,951	13,455	2,100	3,740	8,136	25,287	( <sup>2</sup> )	3,161	2,038	7,555
332	Iron and steel foundries.....	3	3	558	2,014	455	763	1,462	2,940	( <sup>2</sup> )	172	(D)	(D)
34	Fabricated metal products..	26	9	1,328	5,680	1,036	2,195	3,866	8,757	( <sup>2</sup> )	340	2,104	9,535
344	Structural metal products....	13	2	264	1,466	181	452	872	1,344	( <sup>2</sup> )	44	602	3,196
35	Machinery, except electri- cal.....	41	15	2,814	13,428	2,130	4,204	8,919	14,868	( <sup>2</sup> )	1,050	2,780	12,250
354	Metalworking machinery.....	8	2	251	1,024	181	347	650	1,299	( <sup>2</sup> )	64	(D)	(D)
355	Special-industry machinery, n.e.c.....	13	6	1,750	8,948	1,353	2,676	6,125	8,980	( <sup>2</sup> )	920	2,078	10,124
359	Miscellaneous machinery parts	16	5	608	2,748	454	892	1,699	3,735	( <sup>2</sup> )	59	436	1,107
36	Electrical machinery.....	5	2	106	328	86	166	204	385	( <sup>2</sup> )	14	(D)	(D)
366	Communication equipment.....	5	2	106	328	86	166	204	385	( <sup>2</sup> )	14	...	...
37	Transportation equipment...	7	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1,103	2,609
373	Ships and boats.....	4	1	104	423	89	165	338	470	( <sup>2</sup> )	3	(D)	(D)
38	Instruments and related products.....	4	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	320	(D)

See footnotes at end of table.



Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establish- ments, number		All employees		Production workers			Value added by manufacture	Value of shipments	Capital expendi- tures, new	All employees, number	Value added by manufacture
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
39 396	Miscellaneous manufactures <sup>5</sup> Costume jewelry and notions..	42 18	7 1	(D) 186	(D) 371	(D) 183	(D) 258	(D) 350	(D) 669	(D) ( <sup>2</sup> )	(D) 18	1,334 (D)	4,092 (D)

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industries (4-digit) and industry groups (3-digit) are not shown. Industries and industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "all industries" line.

<sup>2</sup>The total value of shipments figures for industry groups and a few individual industries have not been published due to the extensive and unmeasurable duplication arising from shipments from one establishment to another in the same industry classification. (See Introduction.)

<sup>3</sup>The 1954 and 1947 "all industries" totals are not strictly comparable because of differences in scope between the two years in major groups 20 and 24 (see footnote 4).

<sup>4</sup>Comparable data for major groups 20 and 24 are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude establishments in S.I.C. Industry 2411, Logging Camps and Contractors, which are included in the scope of the 1954 Census; the 1947 Census also excludes plants processing and distributing fluid milk which in 1954 were classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
20	Food and kindred products except subgroup 202, Dairy products.....	5,400	32,000	5,038	21,000
24	Lumber and wood products except Industry 2411, Logging camps and contractors.....	898	3,095	1,345	(D)

<sup>5</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)

## MANUFACTURES—AREA STATISTICS

Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947  
(For explanation of column captions see Introduction)

Code	Industry group	Establishments, number	1954							1947	
			All employees		Production workers			Value added by manufacture	Capital expendi- tures, new	All employees number	Value added by manufacture
			Number	Payroll (\$1,000)	Number	Man-hours ((1,000)	Wages (\$1,000)				
			WILMINGTON STANDARD METROPOLITAN AREA <sup>1</sup> (Consists of New Castle County, Delaware, and Salem County, New Jersey)								
	All industries, total <sup>2</sup> ..	344	37,919	170,700	28,728	55,882	114,450	387,324	24,681	<sup>3</sup> 36,506	<sup>3</sup> 207,254
20	Food and kindred products..	77	2,348	8,637	1,570	2,975	4,789	18,806	1,548	(NA)	(NA)
201	Meat products.....	12	266	950	218	448	745	1,532	82	(NA)	(NA)
202	Dairy products.....	26	760	2,972	398	850	1,313	6,227	559	(NA)	(NA)
203	Canned and frozen foods.....	9	443	905	401	570	731	1,290	134	(NA)	(NA)
204	Grain mill products.....	5	344	1,517	251	490	1,055	5,239	209	(NA)	(NA)
21	Tobacco manufactures.....	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
213	Chewing and smoking tobacco...	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
22	Textile mill products.....	13	2,663	10,084	2,244	4,533	7,299	17,417	526	(NA)	(NA)
225	Knitting mills.....	5	258	646	237	455	520	1,038	53	(NA)	(NA)
23	Apparel & related products....	23	1,228	3,060	1,113	2,021	2,238	4,836	14	(NA)	(NA)
233	Women's & misses' outerwear...	10	579	1,209	553	991	976	1,410	3	(NA)	(NA)
24	Lumber and wood products...	10	129	392	109	201	320	837	52	(NA)	(NA)
25	Furniture and fixtures.....	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
26	Pulp, paper and products...	11	832	3,304	717	1,650	2,728	8,241	486	(NA)	(NA)
261	Pulp, paper and board.....	6	451	1,834	398	923	1,555	3,772	309	(NA)	(NA)
27	Printing and publishing....	41	1,234	5,639	866	1,565	3,800	8,256	198	(NA)	(NA)
271	Newspapers.....	13	634	3,167	378	669	1,950	4,501	131	(NA)	(NA)
28	Chemicals and products.....	25	10,467	57,941	7,112	13,728	35,068	166,580	14,397	(NA)	(NA)
29	Petroleum and coal products	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
30	Rubber products.....	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
31	Leather and leather goods..	11	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
311	Leather tanning and finishing.	7	1,704	6,617	1,456	2,843	5,277	10,841	140	(NA)	(NA)
32	Stone, clay, & glass prod..	20	2,107	7,088	1,855	3,526	5,791	14,711	810	(NA)	(NA)
327	Concrete & plaster products...	12	119	366	94	154	193	685	35	(NA)	(NA)
33	Primary metal industries...	7	2,951	13,455	2,100	3,740	8,136	25,287	3,161	(NA)	(NA)
332	Iron and steel foundries.....	3	558	2,014	455	763	1,462	2,940	172	(NA)	(NA)
34	Fabricated metal products..	25	1,260	(D)	976	(D)	(D)	(D)	(D)	(NA)	(NA)
35	Machinery, exc. electrical.	37	2,607	12,707	1,986	3,910	8,467	13,995	1,051	(NA)	(NA)
354	Metalworking machinery.....	8	251	1,024	181	347	650	1,299	64	(NA)	(NA)
36	Electrical machinery.....	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
37	Transportation equipment...	6	3,059	(D)	2,643	(D)	(D)	(D)	(D)	(NA)	(NA)
38	Instruments & related prod.	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
39	Miscellaneous manufactures <sup>4</sup>	20	3,710	(D)	2,657	(D)	(D)	(D)	(D)	(NA)	(NA)

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

NA Not available

<sup>1</sup>There are 53,089 manufacturing employees (including central administrative office and auxiliary unit employment) in the Wilmington Standard Metropolitan Area (see Table 1). The data in this table represent employment at operating manufacturing establishments.<sup>2</sup>In order to avoid disclosing figures for individual companies, the statistics for some industry groups (3-digit) are not shown. Industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "All industries" line.<sup>3</sup>The 1954 and 1947 "All industries" totals are not strictly comparable because of differences in coverage of loggers and fluid milk distributors. See discussion in Introduction and footnote to Table 4 for comparable figures at the State level.<sup>4</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)



## DELAWARE

107-7

Table 6.—GENERAL STATISTICS FOR PRINCIPAL INDUSTRIAL COUNTIES, BY MAJOR INDUSTRY GROUP: 1954 AND 1947

(Principal industrial counties include all counties with 20,000 or more manufacturing employees. For explanation of column captions see Introduction)

Code	Major industry group	1954								1947	
		Establish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendit- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
		NEW CASTLE COUNTY									
	All industries total <sup>1</sup> .....	294	27,268	116,061	21,020	41,033	80,439	251,501	12,973	<sup>2</sup> 24,175	<sup>2</sup> 121,594
20	Food and kindred products.....	63	2,012	7,613	1,325	2,464	4,085	16,950	1,221	1,811	11,936
23	Apparel and related products...	15	726	1,994	633	1,168	1,391	3,644	11	649	1,929
26	Pulp, paper and products.....	11	832	3,304	717	1,650	2,728	8,241	486	819	8,050
27	Printing and publishing.....	34	1,154	5,350	819	1,463	3,606	7,813	176	729	3,723
32	Stone, clay, & glass products..	15	421	1,455	357	699	1,067	2,802	404	177	753
33	Primary metal products.....	7	2,951	13,455	2,100	3,740	8,136	25,287	3,161	2,038	7,555

<sup>1</sup>In order to avoid disclosing data for individual companies, the statistics for some industry groups are not shown. Industry groups reporting less than 100 employees are also omitted. They are included, however, in the "All industries" line.

<sup>2</sup>The 1954 and 1947 "All industries" totals are not strictly comparable because of differences in coverage of loggers and fluid milk distributors. See discussion in Introduction and footnote to Table 4 for comparable figures at the State level.

## MANUFACTURES—AREA STATISTICS

Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954

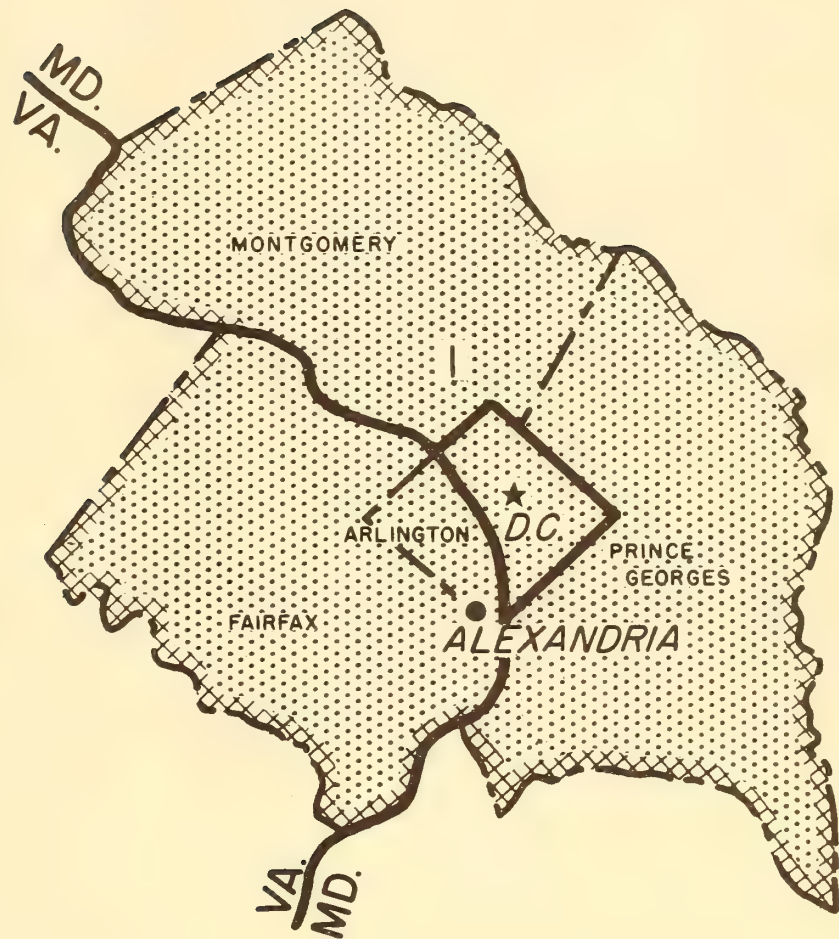
20 Food and kindred products	26 Pulp, paper and products	32 Stone, clay, and glass products	38 Instruments and related products
21 Tobacco manufactures	27 Printing and publishing	33 Primary metal industries	39 Miscellaneous manufactures (Includes Group 19 Ordnance and accessories)
22 Textile mill products	28 Chemicals and products	34 Fabricated metal products	
23 Apparel and related products	29 Petroleum and coal products	35 Machinery, except electrical	
24 Lumber and wood products	30 Rubber products	36 Electrical machinery	
25 Furniture and fixtures	31 Leather and leather goods	37 Transportation equipment	

(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Delaware, total.....	556	142	1	30	34	64	7	11	49	37	5	4	12	28	7	26	41	5	7	4	42
1 to 4 employees.....	157	35	...	6	9	26	1	1	18	8	1	1	1	12	...	6	15	3	2	2	10
5 to 9 employees.....	101	22	...	4	2	20	4	...	11	6	2	...	2	3	...	6	6	...	1	1	11
10 to 19 employees.....	89	22	...	9	1	8	1	1	8	7	...	...	...	6	1	5	5	...	1	...	14
20 to 49 employees.....	84	28	...	4	9	4	1	3	9	4	1	1	1	5	...	3	7	1	...	...	3
50 to 99 employees.....	41	13	1	3	3	4	...	2	...	2	1	1	2	1	1	2	2	1	1	...	1
100 to 249 employees.....	52	19	...	1	7	2	...	4	2	6	...	...	3	1	1	2	3	...	1	...	...
250 to 499 employees.....	16	3	...	2	1	...	...	...	1	1	...	...	1	...	2	2	1	...	...	1	1
500 to 999 employees.....	10	...	...	...	2	...	...	...	2	...	...	2	...	1	...	2	...	...	...	...	1
1,000 to 2,499 employees.....	4	...	...	1	...	...	...	...	...	...	...	1	...	1	...	...	...	...	...	...	1
2,500 employees and over.....	2	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1	...	...
Kent:																					
1 to 19 employees.....	47	13	...	2	...	13	...	...	3	3	1	...	...	5	...	...	1	2	...	1	3
20 to 99 employees.....	13	8	...	1	2	...	...	...	1	...	...	1	...	...	...	...	...	...	...	...	...
100 employees and over.....	9	4	...	...	3	...	...	...	...	...	...	...	1	...	...	...	1	...	...	...	...
New Castle:																					
1 to 19 employees.....	172	40	...	4	10	7	4	2	25	11	2	1	3	9	1	15	23	1	2	2	10
20 to 99 employees.....	69	17	1	4	2	1	1	5	6	3	2	1	3	5	1	4	8	1	1	...	3
100 employees and over.....	54	7	...	4	3	...	...	4	3	7	...	1	5	1	5	4	5	...	2	...	3
Sussex:																					
1 to 19 employees.....	128	26	...	13	2	34	2	...	9	7	...	...	...	7	...	2	2	...	2	...	22
20 to 99 employees.....	43	16	...	2	8	7	...	...	2	3	...	...	...	1	...	1	1	...	...	...	1
100 employees and over.....	21	11	...	...	4	2	...	...	...	3	...	...	...	...	...	...	...	...	...	1	...



# DISTRICT OF COLUMBIA



## STANDARD METROPOLITAN AREA

CODE

1 WASHINGTON D.C.

## LEGEND

● PLACES OF 25,000 TO 100,000

★ PLACES OF 100,000 AND OVER

 STANDARD METROPOLITAN AREA

## MANUFACTURES—AREA STATISTICS

Table 1.—MANUFACTURING EMPLOYMENT AT OPERATING ESTABLISHMENTS AND CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARIES FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS

(This table includes data for all manufacturing employees including those located in central administrative offices and auxiliaries. Tables 2-7 in this report include data for operating establishments only. For explanation of column captions see Introduction)

State standard metropolitan areas, and year <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	(Number)	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
District of Columbia:						
1954.....	21,723	97,011	20,399	90,083	1,324	6,928
1953 <sup>2</sup> .....	19,499	90,075	19,228	88,259	271	1,816
1952 <sup>2</sup> .....	18,008	72,049	17,930	71,481	<sup>3</sup> 78	<sup>3</sup> 568
1951 <sup>2</sup> .....	17,253	66,202	17,175	65,634	78	568
1950 <sup>2</sup> .....	17,282	61,981	17,118	60,905	164	1,076
1949 <sup>2</sup> .....	17,026	59,770	16,854	58,618	172	1,152
1954						
Standard metropolitan area:						
Washington, D. C. <sup>4</sup> .....	31,732	138,202	30,373	131,088	1,359	7,114

<sup>1</sup>Employment data for administrative offices and auxiliaries on a State basis are not available for the years prior to 1949. Similar data for standard metropolitan areas are available only for 1954.

<sup>2</sup>The employment figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period. The employment figures for administrative and auxiliary units were compiled chiefly from Bureau of Old-Age and Survivors Insurance records and are not strictly comparable with the figures for these units that were collected by the Bureau of the Census for the year 1954.

<sup>3</sup>The Washington (D.C.) Standard Metropolitan Area consists of District of Columbia; Montgomery and Prince Georges Counties in Maryland; Arlington and Fairfax Counties, and Alexandria City and Falls Church City in Virginia.

<sup>4</sup>The 1951 data are shown for 1952 as auxiliary and administrative unit data were not collected in 1952.



Table 2.—GENERAL STATISTICS FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Year	Establish- ments, number	All employees		Production workers		Value added by manufacture (\$1,000)	
		Number	Payroll (\$1,000)	Number	Wages (\$1,000)		
DISTRICT OF COLUMBIA							
1954 <sup>1</sup> .....	484   (NA)	{	20,399	90,083	11,821	44,743	157,213
1953 <sup>2</sup> .....			19,228	88,259	9,781	37,297	150,687
1952 <sup>2</sup> .....			17,930	71,481	9,859	36,047	129,422
1951 <sup>2</sup> .....			17,175	65,634	9,944	33,254	126,803
1950 <sup>2</sup> .....			17,118	60,905	10,006	31,664	113,746
1949 <sup>2</sup> .....	{	{	16,854	58,618	9,690	31,463	123,340
1947.....			17,815	55,872	10,007	27,691	99,067
1939.....			14,377	24,920	7,676	11,505	43,367
1937.....			13,757	22,369	8,714	12,848	42,657
1935.....			12,101	20,731	8,115	11,953	37,348
1933.....	386	(NA)	(NA)	7,969	11,185	40,424	
1931.....	492	(NA)	(NA)	8,668	14,062	49,933	
1929.....	547	14,002	25,449	9,752	15,513	52,773	
1927.....	503	(NA)	(NA)	9,519	15,669	54,291	
1925.....	538	(NA)	(NA)	9,753	15,320	50,073	
1923.....	600	(NA)	(NA)	9,823	14,796	40,238	
1921.....	490	(NA)	(NA)	8,640	12,955	37,379	
1919.....	568	13,327	18,537	10,268	12,960	37,404	
1914.....	510	10,776	8,526	8,772	5,999	16,629	
1909.....	518	9,283	6,835	7,707	4,989	15,043	
1904.....	482	7,305	4,865	6,299	3,658	10,627	
1899.....	491	7,112	3,895	6,155	3,023	8,951	
STANDARD METROPOLITAN AREAS (Not applicable to the District of Columbia)							

NA Not available.

<sup>1</sup>The 1954 figures include data for establishments engaged in the processing and distribution of fluid milk, Industry Group 202, Dairy Products. These establishments were not included in the figures for the Annual Survey years 1949-1953 or earlier Census years. In addition, the 1954 Census and Annual Survey years include data for Logging camps and contractors, Industry 2411, which were not included within the scope of the 1947 Census. See footnotes to Table 4 for comparable 1954 and 1947 totals. There were also a number of changes in the definition of manufacturing industries during earlier Census years that affect the comparability of the historical series. Among the more important of these were: figures for 1935 and later years exclude data for "Railroad repair shops" and "Manufactured gas" which were included in 1899-1933 figures; the minimum size of establishment included for 1954 and 1947 was one employee, for 1939-1921 manufacturing establishments reporting value of shipments of \$5,000 or more were within scope whereas for 1919 and earlier years the cutoff was \$500. (This change in procedure has not appreciably affected the comparability of the historical data except for the figures on number of establishments.)

<sup>2</sup>The employment and payroll figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures Volume for this period.

## MANUFACTURES--AREA STATISTICS

Table 3.--GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
District of Columbia, total.....	802,178	484	20,399	90,083	11,821	22,390	44,743	157,213	6,536	17,815	99,067
STANDARD METROPOLITAN AREAS											
Washington, D.C. area total..	1,464,089	859	30,373	131,088	18,534	35,954	67,577	223,472	10,623	<sup>1</sup> 22,473	<sup>1</sup> 118,776
Portion in District of Columbia.....	802,178	484	20,399	90,083	11,821	22,390	44,743	157,213	6,536	17,815	99,067
Portion in Maryland.....	358,583	248	7,400	30,637	4,998	9,974	17,010	48,472	2,999	3,030	12,841
Portion in Virginia.....	303,328	127	2,574	10,368	1,715	3,590	5,824	17,787	1,088	1,628	6,868
COUNTIES											
(Not applicable to the Dis- trict of Columbia)											
CITIES WITH 10,000 INHAB- ITANTS OR MORE											
Washington, D. C. <sup>2</sup>	802,178	484	20,399	90,083	11,821	22,390	44,743	157,213	6,536	17,815	99,067

<sup>1</sup>The 1947 data are not strictly comparable with the figures shown for 1954 due to differences in coverage of loggers and fluid milk distributors. See discussion in Introduction and footnotes to Table 4.

<sup>2</sup>Coextensive with the District of Columbia.

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manufacture	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
	All industries, total <sup>1</sup> ...	484	148	20,399	90,083	11,821	22,390	44,743	157,213	( <sup>2</sup> )	6,536	( <sup>3</sup> )	( <sup>3</sup> )
20	Food and kindred products..	81	45	6,647	28,511	3,447	6,836	11,700	50,377	( <sup>2</sup> )	3,460	( <sup>3</sup> )	( <sup>3</sup> )
201	Meat products.....	9	5	542	2,021	427	665	1,182	4,196	( <sup>2</sup> )	319	473	1,623
202	Dairy products.....	19	12	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2027	Fluid milk and other products..	7	7	1,991	9,314	691	1,409	2,708	16,326	50,408	569	( <sup>3</sup> )	( <sup>3</sup> )
205	Bakery products.....	21	11	1,988	8,939	1,119	2,245	4,004	13,501	27,329	504	2,172	10,113
2051	Bread and related products.....	21	11	1,988	8,939	1,119	2,245	4,004	13,501	27,329	504	2,172	10,113
208	Beverages.....	9	7	691	2,684	261	560	784	3,889	( <sup>2</sup> )	(D)	822	4,954
209	Miscellaneous foods.....	17	7	654	2,533	438	894	1,487	7,001	( <sup>2</sup> )	231	606	4,719
2099	Food preparations, n.e.c.....	11	4	380	1,491	240	493	699	3,200	19,642	111	261	1,469
23	Apparel and related products.....	19	3	177	408	158	284	297	726	( <sup>2</sup> )	6	242	676
239	Fabricated textiles, n.e.c....	15	2	145	354	127	228	245	611	( <sup>2</sup> )	2	(D)	(D)
24	Lumber and wood products...	11	3	167	686	130	275	390	662	( <sup>2</sup> )	33	105	(D)
243	Millwork and related products	7	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2431	Millwork plants.....	6	2	116	513	84	189	307	450	1,214	25	(D)	(D)
25	Furniture and fixtures.....	14	4	259	1,134	180	353	631	1,538	( <sup>2</sup> )	26	237	(D)
2541	Partitions and fixtures.....	6	2	126	673	92	184	414	750	1,188	10	79	(D)
26	Pulp, paper and products...	10	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	729	5,027
27	Printing and publishing....	246	69	10,837	49,649	6,043	10,819	24,819	83,539	( <sup>2</sup> )	2,252	9,847	58,557
2711	Newspapers.....	20	11	4,201	17,839	2,467	4,067	9,835	30,392	49,500	520	3,667	22,402
2721	Periodicals.....	50	17	2,280	11,133	204	178	392	23,238	46,421	148	2,405	17,635
273	Books.....	25	4	269	1,264	194	384	770	1,789	( <sup>2</sup> )	425	(D)	(D)
2732	Book printing.....	17	4	250	1,205	194	385	770	1,657	2,741	420	(D)	(D)
2741	Miscellaneous publishing....	9	2	395	2,003	81	132	305	3,090	4,019	33	302	(D)
2751	Commercial printing.....	73	9	1,599	7,712	1,336	2,638	6,011	11,379	19,102	420	2,338	11,071
2761	Lithographing.....	30	13	1,392	6,325	1,190	2,290	4,929	8,917	14,137	566	525	2,473
278	Bookbinding and related industries.....	11	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2781	Bookbinding.....	8	1	109	396	99	198	300	480	566	21	82	(D)
279	Printing trade services.....	27	10	537	2,778	420	838	2,111	3,932	( <sup>2</sup> )	107	345	2,278
2791	Typesetting.....	10	3	216	1,080	181	350	875	1,590	1,850	55	6	(D)
2793	Photoengraving.....	5	3	143	961	102	201	706	1,212	1,446	24	149	1,276
28	Chemicals and products.....	13	2	220	1,067	167	377	565	1,858	( <sup>2</sup> )	94	178	1,216
29	Petroleum and coal products	1	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...	...	...
30	Rubber products.....	1	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...	...	...
32	Stone, clay and glass products.....	12	2	243	912	199	424	715	1,557	( <sup>2</sup> )	48	293	1,438
34	Fabricated metal products..	23	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	464	1,896
344	Structural metal products....	12	5	309	1,405	232	458	875	2,229	( <sup>2</sup> )	59	380	1,595
3441	Structural and ornamental work..	9	4	260	1,194	192	385	715	1,890	2,908	45	210	(D)
35	Machinery, except electrical.....	10	2	120	393	101	200	271	717	( <sup>2</sup> )	20	59	(D)
36	Electrical machinery.....	10	4	275	904	245	492	723	1,652	( <sup>2</sup> )	9	175	615
37	Transportation equipment...	1	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...	...	...
38	Instruments and related products.....	10	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...	154	667
39	Miscellaneous manufacturers	22	1	165	727	114	213	406	1,025	( <sup>2</sup> )	17	147	658

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industries (4-digit) and industry groups (3-digit) are not shown. Industries and industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "all industries" line.

<sup>2</sup>The total value of shipments figures for industry groups and a few individual industries have not been published due to the extensive and unmeasurable duplication arising from shipments from one establishment to another in the same industry classification. (See Introduction.)

<sup>3</sup>Comparable data are not available due to differences in the coverage between 1947 and 1954. The 1947 Census excludes plants processing and distributing fluid milk which in 1954 were classified in Industry Group 202, Dairy Products. In the special comparative table below, data for those industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	All industries except subgroup 202, total.....	17,752	136,836	17,030	95,267
20	Food and kindred products except subgroup 202, Dairy products.....	4,000	30,000	4,400	23,000



## MANUFACTURES—AREA STATISTICS

Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUPS: 1954 AND 1947

(Not applicable to the District of Columbia)

Table 6.—GENERAL STATISTICS FOR PRINCIPAL INDUSTRIAL COUNTIES (THOSE WITH 20,000 OR MORE MANUFACTURING EMPLOYEES), BY MAJOR INDUSTRY GROUPS: 1954 AND 1947

(Not applicable to the District of Columbia)

Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954

20 Food and kindred products	26 Pulp, paper and products	32 Stone, clay, and glass products	38 Instruments and related products
21 Tobacco manufactures	27 Printing and publishing	33 Primary metal industries	39 Miscellaneous manufactures (includes Group 19)
22 Textile mill products	28 Chemicals and products	34 Fabricated metal products	Ordnance and accessories)
23 Apparel and related products	29 Petroleum and coal products	35 Machinery, except electrical	
24 Lumber and wood products	30 Rubber products	36 Electrical machinery	
25 Furniture and fixtures	31 Leather and leather goods	37 Transportation equipment	

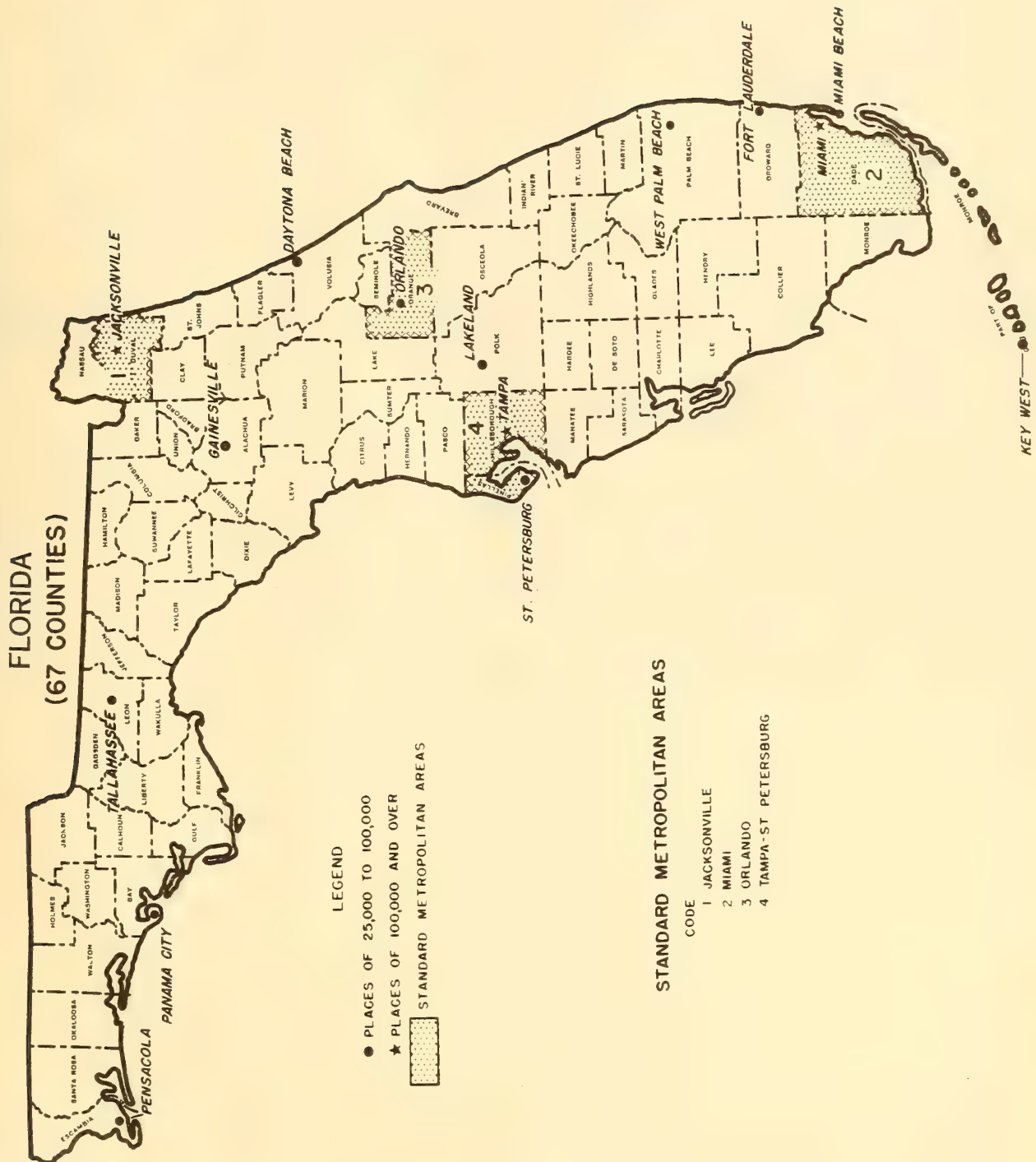
(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
District of Columbia, total.....	484	81	...	...	19	11	14	10	246	13	1	1	...	12	...	23	10	10	1	10	22
1 to 4 employees.....	172	15	...	...	7	3	4	5	99	2	...	...	...	7	...	6	3	4	...	6	11
5 to 9 employees.....	88	11	...	...	8	...	3	1	41	5	...	1	...	1	...	7	3	2	...	1	4
10 to 19 employees.....	75	10	...	...	1	5	3	...	36	4	1	...	...	2	...	3	2	...	1	1	6
20 to 49 employees.....	78	16	...	...	3	3	3	2	41	...	...	...	...	...	...	5	2	1	...	1	1
50 to 99 employees.....	27	6	...	...	...	...	1	...	11	2	...	...	...	1	...	2	...	3	...	1	...
100 to 249 employees.....	25	16	...	...	...	...	...	1	7	...	...	...	...	1	...	...	...	...	...	...	...
250 to 499 employees.....	13	5	...	...	...	...	...	1	7	...	...	...	...	...	...	...	...	...	...	...	...
500 to 999 employees.....	3	1	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
1,000 to 2,499 employees.....	3	1	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
Washington, D.C.:																					
1 to 19 employees.....	335	36	...	...	16	8	10	6	176	11	1	1	...	10	...	16	8	6	1	8	21
20 to 99 employees.....	105	22	...	...	3	3	4	2	52	2	...	...	...	1	...	7	2	4	...	2	1
100 employees and over.....	44	23	...	...	...	...	...	2	18	...	...	...	...	1	...	...	...	...	...	...	...









## MANUFACTURES--AREA STATISTICS

Table 1.—MANUFACTURING EMPLOYMENT AT OPERATING ESTABLISHMENTS AND CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARIES FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS

(This table includes data for all manufacturing employees including those located in central administrative offices and auxiliaries. Tables 2-7 in this report include data for operating establishments only. For explanation of column captions see Introduction)

State, standard metropolitan areas, and year <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	(Number)	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
Florida:						
1954.....	123,958	389,318	123,368	385,291	590	4,027
1951 <sup>2</sup> .....	104,864	281,851	103,973	280,095	891	1,756
1950 <sup>2</sup> .....	91,397	224,139	90,270	221,859	1,127	2,280
1949 <sup>2</sup> .....	34,227	204,334	83,691	202,366	536	1,968
1954						
Standard metropolitan areas:						
Jacksonville <sup>3</sup> .....	17,402	58,172	17,343	57,854	59	318
Miami <sup>4</sup> .....	24,317	80,212	24,229	79,470	88	742
Orlando <sup>5</sup> .....	4,318	15,547	4,125	14,451	193	1,096
Tampa-St. Petersburg <sup>6</sup> .....	22,907	70,924	22,873	70,750	34	174

<sup>1</sup>Employment data for administrative offices and auxiliaries on a State basis are not available for the years prior to 1949. Similar data for standard metropolitan areas are available only for 1954.<sup>2</sup>The employment figures for operating manufacturing establishments for 1949-1951 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufacturers. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period. Comparable data for 1951 and 1952 are not available. The employment figures for administrative and auxiliary units were compiled chiefly from Bureau of Old-Age and Survivors Insurance records and are not strictly comparable with the figures for these units that were collected by the Bureau of the Census for the year 1954.<sup>3</sup>The Jacksonville Standard Metropolitan Area consists of Duval County, Florida.<sup>4</sup>The Miami Standard Metropolitan Area consists of Dade County, Florida.<sup>5</sup>The Orlando Standard Metropolitan Area consists of Orange County, Florida.<sup>6</sup>The Tampa-St. Petersburg Standard Metropolitan Area consists of Hillsborough and Pinellas Counties, Florida.

Table 2.—GENERAL STATISTICS FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Year	Establish- ments, number	All employees		Production workers		Value added by manufacture (\$1,000)
		Number	Payroll (\$1,000)	Number	Wages (\$1,000)	
FLORIDA						
1954 <sup>1</sup> .....	4,792	123,368	385,291	97,338	270,749	797,721
1951 <sup>2</sup> .....		103,973	280,095	84,928	201,322	568,572
1950 <sup>2</sup> .....	(NA)	90,270	221,859	72,937	159,403	449,298
1949 <sup>2</sup> .....		83,691	202,366	67,236	143,282	365,408
1947.....	2,807	78,665	168,817	66,027	128,239	349,976
1939.....	1,976	62,616	55,355	51,149	36,847	115,885
1937.....	1,835	58,902	48,504	52,005	36,501	103,907
1935.....	1,889	57,047	41,140	51,412	30,961	80,247
1933.....	1,474	(NA)	(NA)	44,878	24,450	65,337
1931.....	1,677	(NA)	(NA)	50,123	34,439	88,763
1929.....	2,212	71,345	68,651	64,868	54,582	135,488
1927.....	1,912	(NA)	(NA)	61,219	56,672	127,075
1925.....	1,863	(NA)	(NA)	66,204	65,780	153,213
1923.....	1,690	(NA)	(NA)	65,047	52,357	105,071
1921.....	1,720	(NA)	(NA)	53,289	42,734	78,758
1919.....	2,503	80,086	77,932	74,156	67,136	120,151
1914.....	2,490	60,424	30,036	55,517	24,749	47,163
1909.....	2,159	62,098	27,937	57,473	22,982	46,761
1904.....	1,413	45,216	18,437	42,091	15,767	33,766
1899.....	1,275	37,252	12,216	35,471	10,916	21,336
STANDARD METROPOLITAN AREAS (None with 40,000 or more manufacturing employees in this State)						

NA Not available.

<sup>1</sup>The 1954 figures include data for establishments engaged in the processing and distribution of fluid milk, Industry Group 202, Dairy Products. These establishments were not included in the figures for the Annual Survey years 1949-1951 or earlier Census years. In addition, the 1954 Census and Annual Survey years include data for Logging camps and contractors, Industry 2411, which were not included within the scope of the 1947 Census. See footnotes to Table 4 for comparable 1954 and 1947 totals. There were also a number of changes in the definition of manufacturing industries during earlier Census years that affect the comparability of the historical series. Among the more important of these were: figures for 1935 and later years exclude data for "Railroad repair shops" and "Manufactured gas" which were included in 1899-1933 figures; the minimum size of establishment included for 1954 and 1947 was one employee, for 1939-1921 manufacturing establishments reporting value of shipments of \$5,000 or more were within scope whereas for 1919 and earlier years the cut-off was \$500. (This change in procedure has not appreciably affected the comparability of the historical data except for the figures on number of establishments.)

<sup>2</sup>The employment and payroll figures for operating manufacturing establishments for 1949-1951 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments.) The standard errors associated with these estimates are published in the Annual Survey of Manufactures Volume for this period. Comparable data for 1951 and 1952 are not available.



## MANUFACTURES—AREA STATISTICS

Table 3.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
Florida, Total.....	2,771,305	4,792	123,368	385,291	97,338	198,489	270,749	797,721	104,631	( <sup>1</sup> )	( <sup>1</sup> )
STANDARD METROPOLITAN AREAS											
Jacksonville.....	304,029	423	17,343	57,854	13,477	27,671	39,941	124,330	10,728	12,771	66,736
Miami.....	495,084	1,238	24,229	79,470	17,772	34,660	50,009	141,213	9,775	9,271	45,528
Orlando.....	114,950	210	4,125	14,451	2,932	6,098	9,081	34,107	4,385	2,752	10,888
Tampa - St. Petersburg.....	409,143	753	22,873	70,750	17,848	37,434	49,184	140,006	9,995	18,124	68,128
COUNTIES											
Alachua.....	57,026	71	1,748	4,214	1,511	2,823	3,073	8,030	334	1,219	3,602
Baker.....	6,313	32	240	505	220	415	426	1,070	39	137	252
Bay.....	42,689	41	2,342	8,949	1,952	3,984	7,417	31,659	4,721	1,702	(D)
Bradford.....	11,457	21	641	1,839	568	1,055	1,540	2,314	482	114	258
Brevard.....	23,653	26	452	1,200	404	749	1,002	1,998	36	237	1,042
Broward.....	83,933	191	2,862	9,409	2,235	4,461	6,499	16,031	1,374	784	3,818
Calhoun.....	7,922	17	214	424	192	376	345	620	34	337	548
Charlotte.....	4,286	12	60	126	48	90	103	256	10	21	93
Citrus.....	6,111	12	44	103	36	70	72	164	7	17	75
Clay.....	14,323	29	300	790	264	506	619	1,730	169	171	513
Collier.....	6,488	7	420	1,049	382	843	928	1,334	55	234	724
Columbia.....	18,216	41	704	1,379	632	1,257	1,137	2,755	256	249	731
Dade.....	495,084	1,238	24,229	79,470	17,772	34,660	50,009	141,213	9,775	9,271	45,528
De Sota.....	9,242	8	99	240	85	149	196	473	23	435	2,043
Dixie.....	3,928	11	180	438	154	300	350	880	56	(D)	(D)
Duval.....	304,029	423	17,343	57,854	13,477	27,671	39,941	124,330	10,728	12,771	66,736
Escambia.....	112,706	90	7,955	28,138	6,084	12,402	19,602	68,958	23,453	3,434	21,039
Flagler.....	3,367	11	272	935	257	521	884	3,193	1,094	37	66
Franklin.....	5,814	12	92	204	78	150	166	440	8	127	767
Gadsden.....	36,457	40	1,712	3,201	1,630	3,207	2,840	4,950	294	1,572	3,491
Gilchrist.....	3,499	5	28	91	25	51	65	140	9	83	168
Glades.....	2,199	3	17	29	14	12	13	64	(D)	9	49
Gulf.....	7,460	14	1,302	(D)	1,003	(D)	(D)	(D)	(D)	1,104	(D)
Hamilton.....	8,981	16	413	877	386	775	790	1,489	48	306	831
Hardee.....	10,073	13	191	333	168	289	264	388	50	213	736
Hendry.....	6,051	5	440	(D)	374	(D)	(D)	(D)	(D)	479	(D)
Hernando.....	6,693	14	85	149	77	145	133	304	41	176	555
Highlands.....	13,636	13	124	294	99	181	217	506	84	150	565
Hillsborough.....	249,894	458	18,509	57,503	14,953	30,056	41,612	114,875	8,432	16,179	59,796
Holmes.....	13,988	21	138	237	126	260	209	425	38	78	202
Indian River.....	11,872	17	247	759	170	377	458	1,410	141	140	399
Jackson.....	34,645	47	820	1,820	712	1,563	1,413	3,944	249	426	1,646
Jefferson.....	10,413	16	88	141	76	139	121	306	47	294	628
Lafayette.....	3,440	11	44	74	39	63	65	153	11	40	(D)
Lake.....	36,340	56	978	2,596	839	1,759	1,918	7,163	800	674	2,027
Lee.....	23,404	54	634	1,725	493	1,022	1,202	2,861	157	283	1,034
Leon.....	51,590	54	1,559	4,089	1,287	2,581	2,754	7,222	374	1,347	5,255
Levy.....	10,637	30	327	678	294	522	588	1,086	93	426	1,028
Liberty.....	3,182	12	118	209	112	204	194	375	26	154	365
Madison.....	14,197	36	760	1,716	695	1,397	1,370	2,884	168	450	1,019
Manatee.....	34,704	49	616	1,498	486	898	1,079	2,894	434	950	2,764
Marion.....	38,187	65	1,634	4,123	1,388	2,925	3,107	7,786	604	1,062	3,649
Martin.....	7,807	5	44	149	29	66	103	213	(D)	46	88
Monroe.....	29,957	23	162	434	117	275	312	859	141	114	459
Nassau.....	12,811	56	1,988	7,160	1,744	3,659	5,822	26,983	3,210	1,134	(D)
Okaloosa.....	27,533	22	396	665	360	648	590	951	47	276	559
Okeechobee.....	3,454	6	137	235	131	226	220	714	22	75	309
Orange.....	114,950	210	4,125	1,445	2,932	6,098	9,081	34,107	4,385	2,752	10,888
Osceola.....	11,406	21	258	614	219	392	461	1,018	53	456	1,670
Palm Beach.....	114,688	150	2,080	6,891	1,431	3,007	4,260	12,039	1,511	1,206	5,649
Pasco.....	20,529	27	2,202	5,479	1,940	4,168	4,581	16,562	1,396	1,514	4,877
Pinellas.....	159,249	295	4,364	13,247	2,895	7,378	7,572	25,131	1,563	1,954	8,332
Polk.....	123,997	151	8,744	27,449	7,307	15,294	21,039	53,316	17,284	5,076	22,603
Putnam.....	23,615	57	2,312	8,051	2,099	4,506	7,081	21,192	1,244	857	3,132
St. Johns.....	24,998	45	453	1,456	366	942	900	3,492	425	299	1,021
St. Lucie.....	20,180	26	482	1,340	324	637	761	3,011	239	460	1,717
Santa Rosa.....	18,554	12	116	161	95	160	130	205	15	46	140
Sarasota.....	28,827	64	586	1,791	412	799	1,119	3,071	391	234	811
Seminole.....	26,883	30	418	1,023	361	766	790	2,734	475	309	1,342
Sumter.....	11,330	9	73	169	50	102	89	220	25	203	508

Table 3.--GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947--Continued  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
Suwannee.....	16,986	31	257	509	223	470	428	954	59	273	530
Taylor.....	10,416	26	932	2,270	847	1,696	1,883	1,928	2,819	1,586	6,566
Union.....	8,906	12	69	119	62	108	107	233	23	(D)	(D)
Volusia.....	74,229	122	1,714	4,866	1,174	2,325	2,903	7,716	504	1,281	4,690
Wakulla.....	5,258	7	74	141	73	145	140	232	25	(D)	(D)
Walton.....	14,725	19	142	286	104	176	177	559	29	252	627
Washington.....	11,888	24	234	410	218	406	361	970	44	253	610
CITIES WITH 10,000 INHAB- ITANTS OR MORE											
Bradenton.....	13,604	16	419	992	323	566	676	1,938	348	(NA)	(NA)
Clearwater.....	15,581	42	720	2,069	583	1,158	1,461	6,014	167	278	1,076
Coral Gables.....	19,837	37	490	1,667	380	685	1,120	3,287	297	(NA)	(NA)
Daytona Beach.....	30,187	57	970	3,203	538	1,099	1,622	5,196	258	598	2,933
Fort Lauderdale.....	36,328	100	1,345	4,836	952	1,914	2,852	8,231	887	588	2,984
Fort Myers.....	13,195	37	374	1,203	270	576	771	1,950	122	228	921
Fort Pierce.....	13,502	18	379	(D)	239	(D)	(D)	(D)	(D)	(NA)	(NA)
Gainesville.....	26,861	35	733	1,881	615	1,171	1,365	3,448	146	610	1,711
Hialeah.....	19,676	136	2,024	6,132	1,682	3,378	4,509	11,050	1,717	(NA)	(NA)
Hollywood.....	14,351	38	527	1,416	417	773	1,014	2,656	174	(NA)	(NA)
Jacksonville.....	204,517	332	15,758	52,382	12,224	25,003	35,983	111,108	9,171	12,221	65,219
Key West.....	26,433	20	155	415	112	265	297	818	132	(D)	(D)
Lakeland.....	30,851	39	1,122	3,042	837	1,525	1,895	4,952	583	565	2,614
Lake Worth.....	11,777	16	113	355	86	178	264	646	5	(NA)	(NA)
Miami.....	249,276	816	17,262	56,642	12,362	23,847	34,677	99,244	5,038	7,086	35,288
Miami Beach.....	46,282	41	330	1,181	222	432	714	1,965	52	389	1,813
North Miami.....	10,734	32	834	2,573	601	1,186	1,791	4,904	251	(NA)	(NA)
Ocala.....	11,741	32	719	1,880	593	1,285	1,343	4,538	339	(NA)	(NA)
Orlando.....	52,367	112	1,879	6,171	1,117	2,201	2,994	13,654	490	1,717	6,668
Panama City.....	25,814	28	719	(D)	527	(D)	(D)	(D)	(D)	181	516
Pensacola.....	43,479	56	2,195	7,767	1,552	3,299	4,908	14,044	2,688	2,424	16,620
St. Augustine.....	13,555	31	263	818	197	418	518	1,515	139	236	877
St. Petersburg.....	96,738	162	2,352	7,141	1,470	4,563	3,931	13,562	595	1,241	5,572
Sanford.....	11,935	12	129	268	107	213	210	441	27	135	619
Sarasota.....	18,896	47	427	1,402	268	526	797	2,505	284	190	722
Tallahassee.....	27,237	39	1,384	3,732	1,135	2,289	2,464	6,458	297	1,156	4,155
Tampa.....	124,681	401	15,975	49,430	12,838	25,594	35,534	95,840	6,834	14,417	51,839
West Palm Beach.....	43,162	73	1,257	4,362	798	1,600	2,446	7,514	910	917	4,216

D Withheld to avoid disclosing figures for individual companies.

NA Not available

<sup>1</sup>The 1947 data are not strictly comparable with the figures shown for 1954 due to differences in coverage of loggers and fluid milk distributors.  
See discussion in Introduction and footnotes to Table 4.



## MANUFACTURES—AREA STATISTICS

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947

(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
	All industries, total <sup>1</sup> ...	4,792	1,065	123,368	385,291	97,338	198,489	270,749	797,721	( <sup>2</sup> )	104,631	( <sup>3</sup> )	( <sup>3</sup> )
20	Food and kindred products..	797	280	30,391	91,821	21,019	44,323	53,132	212,319	( <sup>2</sup> )	19,376	( <sup>3</sup> )	( <sup>3</sup> )
201	Meat products.....	75	39	2,775	8,352	2,158	4,521	5,721	13,618	( <sup>2</sup> )	1,099	1,891	7,226
2011	Meat packing, plants.....	39	23	1,965	6,238	1,523	3,360	4,345	9,869	( <sup>2</sup> )	772	(D)	(D)
2013	Prepared meats.....	25	10	539	1,733	382	756	1,018	2,909	( <sup>2</sup> )	231	715	2,428
2015	Poultry dressing, plants.....	11	6	270	380	252	403	357	839	5,951	95	(D)	(D)
202	Dairy products.....	103	46	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2024	Ice cream and ices.....	21	8	852	2,752	483	1,152	1,315	8,474	20,235	906	( <sup>3</sup> )	( <sup>3</sup> )
2026	Fluid milk.....	18	3	195	647	134	298	377	1,547	3,672	(D)	( <sup>3</sup> )	( <sup>3</sup> )
2027	Fluid milk and other products..	58	35	3,546	12,391	1,212	2,858	3,636	29,406	81,645	1,777	( <sup>3</sup> )	( <sup>3</sup> )
203	Canned and frozen foods.....	116	63	11,277	30,687	10,001	20,391	24,306	75,130	( <sup>2</sup> )	5,995	6,252	24,498
2033	Canned fruits and vegetables...	69	36	6,433	16,560	5,951	11,986	13,598	31,432	105,156	2,702	5,982	23,318
2036	Packaged seafood.....	13	8	545	1,008	506	861	786	2,187	5,875	171	}	(D)
2037	Frozen fruits and vegetables...	21	17	4,156	12,840	3,424	7,335	9,723	41,101	140,299	3,029		(D)
204	Grain mill products.....	35	13	867	2,823	522	1,200	1,409	4,127	( <sup>2</sup> )	274	814	4,224
2042	Prepared animal feeds.....	28	12	761	2,514	480	1,108	1,309	3,576	18,292	241	791	(D)
205	Bakery products.....	101	43	4,319	14,327	2,624	5,653	7,148	26,276	( <sup>2</sup> )	1,472	3,343	15,337
2051	Bread and related products....	96	40	4,225	14,140	2,540	5,516	7,012	25,909	54,504	1,435	3,274	14,954
207	Candy and related products...	24	3	256	564	223	439	414	867	2,408	26	302	864
2071	Confectionery products.....	24	3	256	564	223	439	414	867	2,408	26	302	864
208	Beverages.....	154	47	3,545	11,128	1,723	3,553	3,935	22,542	( <sup>2</sup> )	2,154	2,760	15,219
2081	Bottled soft drinks.....	145	40	2,832	8,584	1,330	2,629	2,760	17,320	33,423	1,581	2,115	10,371
209	Miscellaneous foods.....	186	23	2,094	5,752	1,397	2,881	3,221	27,466	( <sup>2</sup> )	4,438	3,222	18,252
2097	Manufactured ice.....	108	17	1,370	3,597	860	1,895	2,029	7,353	9,175	357	2,514	13,353
2099	Food preparations, n.e.c.....	58	5	600	1,823	452	828	995	19,495	71,238	4,012	412	3,593
21	Tobacco manufactures.....	59	26	8,959	21,238	8,598	16,431	19,099	33,730	( <sup>2</sup> )	753	8,723	18,723
22	Textile mill products.....	27	6	471	1,247	420	810	972	1,923	( <sup>2</sup> )	312	103	323
225	Knitting mills.....	10	3	231	653	209	379	535	1,077	( <sup>2</sup> )	(D)	61	(D)
23	Apparel and related products.....	269	80	5,847	12,942	5,291	9,604	10,407	19,869	( <sup>2</sup> )	595	2,018	5,913
232	Men's and boys' furnishings..	35	20	1,772	3,236	1,643	3,039	2,728	4,678	( <sup>2</sup> )	95	841	1,966
2321	Men's dress shirts & nightwear.	14	8	728	1,113	707	1,245	1,043	1,555	2,284	29	248	662
2327	Separate trousers.....	4	2	237	503	207	433	378	808	1,702	16	(D)	(D)
233	Women's and misses' outerwear	100	42	2,734	6,551	2,469	4,360	5,229	9,975	( <sup>2</sup> )	215	510	1,705
2333	Dresses, unit price.....	53	23	1,108	2,823	975	1,634	2,184	4,655	8,364	131	192	577
2334	Dresses, dozen price.....	12	5	718	1,499	670	1,280	1,277	2,281	5,056	37	95	(D)
2337	Women's suits, coats, & skirts.	13	6	248	721	227	405	599	932	1,881	(D)	(NA)	(NA)
2339	Women's outerwear, n.e.c.....	15	8	605	1,388	545	950	1,057	1,909	3,799	27	105	378
234	Women's undergarments.....	9	5	246	553	206	395	435	871	( <sup>2</sup> )	9	(D)	(D)
2341	Women's & children's underwear.	4	2	102	193	90	172	171	360	693	2	(D)	(D)
2342	Corsets and allied garments....	5	3	144	360	116	223	264	510	950	6	(D)	(D)
236	Children's outerwear.....	16	4	291	745	267	497	589	1,274	( <sup>2</sup> )	28	142	343
2369	Children's outerwear, n.e.c....	8	4	216	618	200	398	474	1,011	1,940	15	87	(D)
239	Fabricated textiles, n.e.c....	98	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2392	Housefurnishings, n.e.c.....	20	1	168	339	147	262	258	665	1,578	16	(D)	(D)
2394	Canvas products.....	36	...	156	419	124	230	244	681	1,310	34	166	597
24	Lumber and wood products...	1,022	160	16,033	35,959	14,570	28,589	29,803	56,866	( <sup>2</sup> )	4,103	( <sup>3</sup> )	( <sup>3</sup> )
2411	Logging camps and contractors	470	10	3,000	6,406	2,707	4,897	5,731	11,008	17,642	1,091	( <sup>3</sup> )	( <sup>3</sup> )
242	Lumber and basic products....	314	92	7,092	14,378	6,602	12,873	12,273	21,924	( <sup>2</sup> )	1,589	9,563	27,875
2421	Sawmills and planing mills....	303	83	6,700	13,679	6,220	12,130	11,623	20,657	45,476	1,542	9,124	26,935
243	Millwork and related products	138	25	2,076	6,342	1,694	3,685	4,656	9,418	( <sup>2</sup> )	324	1,671	5,314
2431	Millwork plants.....	130	20	1,540	5,001	1,207	2,647	3,596	7,637	16,714	256	1,121	4,011
2432	Plywood plants.....	3	3	357	839	327	734	660	1,107	2,264	41	231	(D)
2433	Prefabricated wood products....	5	2	178	501	159	303	399	674	1,905	27	319	844
244	Wooden containers.....	41	18	2,835	6,077	2,663	5,290	5,026	9,853	( <sup>2</sup> )	406	3,700	9,415
2444	Wooden boxes.....	33	16	2,613	5,641	2,469	4,869	4,658	9,035	19,730	279	3,034	8,281
249	Miscellaneous wood products..	59	15	1,028	2,755	903	1,842	2,115	4,661	( <sup>2</sup> )	691	792	4,625
2491	Wood preserving.....	17	9	628	1,877	534	1,152	1,407	3,141	8,364	642	631	4,257
2499	Wood products, n.e.c.....	37	6	382	834	353	659	671	1,414	3,058	(D)	161	368
25	Furniture and fixtures.....	324	61	4,696	13,959	3,834	7,397	9,648	23,197	( <sup>2</sup> )	1,414	2,046	7,079
251	Household furniture.....	210	47	3,417	9,376	2,883	5,452	6,638	16,240	( <sup>2</sup> )	1,073	1,476	5,031
2511	Wood furniture, not upholstered	102	22	1,453	4,211	1,214	2,520	3,028	6,642	12,032	350	689	(D)
2512	Upholstered household furniture	34	6	521	1,654	431	801	1,078	2,419	5,095	73	340	1,137
2514	Metal household furniture.....	22	9	722	1,385	646	948	1,032	2,918	6,719	389	(D)	(D)
2515	Mattresses and bedsprings.....	42	9	650	1,930	530	1,068	1,334	3,950	8,665	64	416	1,756
2541	Partitions and fixtures.....	45	4	311	1,364	248	575	1,018	2,075	3,634	60	266	979
256	Screens, shades, and blinds...	65	7	780	2,543	563	1,134	1,578	4,123	( <sup>2</sup> )	(D)	(D)	(D)
2561	Window and door screens.....	13	3	383	1,522	285	601	944	2,442	5,549	82	(D)	(D)

See footnotes at end of table.



Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establish- ments, number		All employees		Production workers			Value added by manufacture	Value of shipments	Capital expendi- tures, new	All employees, number	Value added by manufacture
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
26	Pump, paper and products...	65	48	11,622	47,512	9,667	20,532	38,109	139,238	(2)	25,260	5,696	55,777
261	Pulp, paper and board.....	22	22	7,399	32,837	6,203	13,405	27,090	112,222	(2)	18,751	4,792	48,303
2612	Paper and paperboard mills.....	8	8	2,780	12,789	2,296	5,051	10,422	44,541	165,056	6,171	1,965	24,143
2661	Paper bags.....	9	6	2,358	8,041	2,029	4,241	6,493	16,308	52,680	1,645	...	...
267	Paperboard containers.....	18	15	1,526	5,498	1,166	2,324	3,773	8,837	(2)	4,785	(D)	(D)
269	Pulp, paper and products, nec	12	5	311	1,020	248	513	721	1,649	(2)	34	(D)	(D)
27	Printing and publishing....	567	58	9,420	36,758	5,228	11,212	20,641	62,710	(2)	3,490	6,288	34,706
2711	Newspapers.....	166	37	6,778	27,685	3,275	7,435	14,145	47,044	68,551	2,081	4,507	26,412
2721	Periodicals.....	31	...	121	410	16	26	75	1,073	1,696	18	108	748
2751	Commercial printing.....	243	16	1,734	5,974	1,355	2,610	4,495	10,188	15,923	819	1,305	5,968
2761	Lithographing.....	48	4	375	1,413	295	574	1,043	2,219	3,824	412	173	585
279	Printing trade services.....	34	1	239	862	183	365	642	1,365	(2)	109	145	821
28	Chemicals and products.....	225	72	9,449	33,911	7,281	15,475	22,795	80,684	(2)	(D)	4,724	28,774
281	Inorganic chemicals.....	14	4	336	1,275	281	592	985	4,295	10,082	300	126	553
2819	Inorganic chemicals, n.e.c....	14	4	336	1,275	281	592	985	4,295	10,082	300	126	553
283	Drugs and medicines.....	15	4	177	583	122	227	272	1,647	(2)	191	113	922
284	Soap and related products....	19	...	132	404	81	162	200	858	(2)	87	(D)	(D)
285	Paints and allied products...	26	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2851	Paints and varnishes.....	23	6	275	950	181	356	494	2,021	4,841	75	155	(D)
286	Gum and wood chemicals.....	9	6	820	3,030	694	1,525	2,344	5,224	(2)	1,712	993	6,046
287	Fertilizers.....	51	32	3,688	14,395	2,904	6,529	10,202	31,551	(2)	16,624	2,404	14,330
2871	Fertilizers.....	14	13	2,707	11,121	2,240	4,998	8,515	23,996	60,134	15,876	1,203	7,892
2872	Fertilizers, mixing only.....	37	19	981	3,274	663	1,531	1,687	7,555	30,447	748	1,201	6,438
288	Vegetables and animal oils...	15	7	524	1,571	451	1,064	1,084	3,446	(2)	579	(D)	(D)
2886	Grease and tallow.....	8	3	182	721	149	389	451	1,666	2,748	129	109	1,085
289	Chemical products, n.e.c.....	73	11	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2896	Compressed and liquefied gases.	8	2	116	431	78	177	267	1,334	1,746	309	89	(D)
2897	Insecticides and fungicides....	16	7	411	1,447	296	651	795	4,266	13,599	146	240	1,869
2899	Chemical products, n.e.c.....	28	1	110	298	80	157	215	661	1,130	80	33	(D)
29	Petroleum and coal products	19	6	284	1,092	201	406	661	2,429	(2)	663	33	267
295	Paving and roofing materials.	16	6	267	1,024	187	379	615	2,271	(2)	634	(D)	(D)
2952	Roofing felts and coatings.....	10	4	188	653	141	268	427	1,120	4,661	592	(D)	(D)
30	Rubber products.....	17	4	281	808	225	442	627	950	2,645	57	(D)	(D)
3099	Rubber industries, n.e.c.....	17	4	281	808	225	442	627	950	2,645	57	(D)	(D)
31	Leather and leather goods..	24	5	504	1,366	457	909	1,071	2,400	(2)	44	154	410
314	Footwear, except rubber.....	6	2	253	675	233	499	582	1,149	(2)	9	82	(D)
317	Purses and small leather goods.....	11	2	163	382	147	262	302	763	(2)	19	(D)	(D)
32	Stone, clay and glass products.....	337	64	5,325	16,359	4,265	8,995	11,939	36,843	(2)	5,495	2,675	12,809
325	Structural clay products.....	13	3	196	505	175	329	389	882	(2)	50	(D)	(D)
327	Concrete and plaster products	273	54	4,095	12,445	3,180	6,822	8,744	23,575	(2)	3,084	2,247	9,970
329	Nonmetallic mineral products, n.e.c.....	14	3	144	390	131	280	334	933	(2)	40	(D)	(D)
33	Primary metal industries...	40	8	805	2,407	704	1,384	1,945	4,974	(2)	266	323	1,024
332	Iron and steel foundries.....	10	3	286	870	261	504	757	1,260	(2)	137	(D)	(D)
335	Nonferrous rolling & drawing.	6	2	115	276	96	184	211	820	(2)	30	...	...
3361	Nonferrous foundries.....	18	2	290	844	253	508	683	1,605	2,659	74	77	(D)
34	Fabricated metal products..	332	80	7,510	27,241	5,942	12,267	19,425	56,085	(2)	6,178	2,158	11,571
342	Cutlery, tools, and hardware.	16	1	102	356	83	164	236	889	(2)	96	(D)	(D)
344	Structural metal products....	206	61	4,709	16,294	3,589	7,304	10,819	31,168	(2)	2,435	1,276	6,504
3441	Structural and ornamental work.	82	22	1,428	5,493	1,075	2,269	3,550	9,014	19,703	562	454	2,401
3442	Metal doors, sash, and trim....	51	20	2,159	6,925	1,618	3,286	4,567	15,327	36,667	1,447	211	901
3443	Boiler shop products.....	10	3	174	673	135	264	452	920	2,401	89	226	1,188
3444	Sheet-metal work.....	63	16	947	3,202	760	1,484	2,248	5,907	11,881	335	385	2,014
346	Metal stamping and coating...	29	2	410	1,083	367	758	871	2,537	(2)	269	(D)	(D)
3463	Metal stampings.....	7	2	319	819	289	608	649	2,046	4,150	185	17	(D)
3471	Lighting fixtures.....	28	3	242	652	203	403	501	1,056	2,180	58	33	(D)
35	Machinery, except electri- cal.....	166	29	2,648	9,499	1,948	3,790	6,055	18,199	(2)	925	1,465	6,768
352	Tractors and farm machinery..	23	4	281	807	210	426	557	1,897	(2)	35	293	380
354	Metalworking machinery.....	20	2	128	558	105	238	424	921	(2)	59	(D)	(D)
3544	Special dies and tools.....	17	2	117	528	97	221	401	862	1,209	53	(NA)	(NA)
355	Special-industry machinery, n.e.c.....	17	2	643	2,358	364	723	1,339	4,994	(2)	(D)	542	2,494
3551	Food-products machinery.....	7	2	574	2,140	309	619	1,169	4,698	7,335	(D)	406	(D)
356	General industrial machinery.	23	7	651	2,591	489	957	1,418	3,965	(2)	142	466	2,821
3569	General industrial mach., nec..	6	2	148	561	113	140	272	989	1,615	4	(D)	(D)
358	Service and household ma- chines.....	14	2	112	464	85	144	228	1,904	(2)	62	(D)	(D)
359	Miscellaneous machinery parts	59	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3599	Machine shops.....	52	7	625	2,053	535	1,007	1,623	3,191	5,549	228	108	(D)

See footnotes at end of table.

## MANUFACTURES—AREA STATISTICS

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establish- ments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
36	Electrical machinery.....	59	12	906	2,567	744	1,372	1,862	4,417	( <sup>2</sup> )	220	236	1,023
366	Communication equipment.....	26	8	487	1,406	403	727	1,015	2,237	( <sup>2</sup> )	90	93	(D)
369	Electrical products, n.e.c...	19	1	137	431	102	210	301	1,000	( <sup>2</sup> )	84	(D)	(D)
37	Transportation equipment...	168	36	5,712	21,866	4,883	10,514	17,798	29,395	( <sup>2</sup> )	1,221	5,409	21,431
372	Aircraft parts.....	9	3	201	787	154	299	532	987	( <sup>2</sup> )	27	(D)	(D)
373	Ships and boats.....	135	30	5,235	20,230	4,500	9,773	16,609	27,132	( <sup>2</sup> )	1,152	5,137	20,575
38	Instruments and related products.....	27	2	285	735	239	476	527	1,426	( <sup>2</sup> )	75	(D)	(D)
3851	Ophthalmic goods.....	4	2	184	392	170	344	318	770	1,275	28	(D)	(D)
39	Miscellaneous manufactures <sup>4</sup>	248	28	2,211	5,996	1,813	3,551	4,224	10,059	( <sup>2</sup> )	(D)	1,248	3,618
394	Toys and sporting goods.....	39	5	466	997	413	837	789	1,795	( <sup>2</sup> )	84	266	517
3949	Sporting and athletic goods...	29	3	292	638	261	543	511	999	1,733	46	214	465
396	Costume jewelry and notions..	23	4	246	552	199	387	386	975	( <sup>2</sup> )	28	(D)	(D)
3971	Plastics products, n.e.c.....	43	4	354	958	275	515	623	1,691	3,479	246	26	(D)
398 399	Miscellaneous manufactures <sup>4</sup> ..	126	15	1,078	3,321	872	1,713	2,289	5,288	( <sup>2</sup> )	211	796	2,661
3981	Brooms and brushes.....	9	3	160	327	142	273	261	596	1,143	14	67	(D)
3988	Morticians' goods.....	11	3	116	334	84	158	168	664	1,211	4	152	528
3993	Signs and advertising displays.	74	5	483	1,812	371	790	1,257	2,859	4,185	143	233	1,160

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industries (4-digit) and industry groups (3-digit) are not shown. Industries and industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "all industries" line.

<sup>2</sup>The total value of shipments figures for industry groups and a few individual industries have not been published due to the extensive and unmeasurable duplication arising from shipments from one establishment to another in the same industry classification. (See Introduction.)

<sup>3</sup>Comparable data are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude establishments in S.I.C. Industry 2411, Logging Camps and Contractors, which are included in the scope of the 1954 Census; the 1947 Census also excludes plants processing and distributing fluid milk which in 1954 were classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	All industries except subgroups 202 and 2411, total.....	115,977	747,394	78,100	347,652
20	Food and kindred products except subgroup 202, Dairy products.....	26,000	173,000	19,000	90,000
24	Lumber and wood products except Industry 2411, Logging camps and contractors.....	13,033	45,858	15,726	47,229

<sup>4</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)

Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUPS: 1954 AND 1947  
(This State contained no standard metropolitan area with 40,000 or more manufacturing employees in 1954 or 1947)

Table 6.—GENERAL STATISTICS FOR PRINCIPAL INDUSTRIAL COUNTIES, BY MAJOR INDUSTRY GROUP: 1954 AND 1947

(Principal industrial counties include all counties with 20,000 or more manufacturing employees. For explanation of column captions see Introduction)

Code	Major industry group	1954								1947	
		Establish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendit- ures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
		DADE COUNTY									
	All industries, total <sup>1</sup> .....	1,238	24,229	79,470	17,772	34,660	50,009	141,213	9,775	<sup>2</sup> 9,271	<sup>2</sup> 45,528
20	Food and kindred products.....	143	4,937	16,588	2,691	5,604	6,991	35,557	3,009	(NA)	(NA)
23	Apparel and related products.....	187	3,737	9,214	3,360	6,028	7,278	14,557	339	(NA)	(NA)
24	Lumber and wood products.....	68	772	2,568	630	1,309	1,845	4,105	135	(NA)	(NA)
25	Furniture and fixtures.....	142	2,731	8,433	2,248	4,209	5,818	13,463	988	(NA)	(NA)
26	Pulp, paper and products.....	16	398	1,319	299	611	853	2,004	237	(NA)	(NA)
27	Printing and publishing.....	161	2,985	12,369	1,689	2,933	7,080	19,681	790	(NA)	(NA)
28	Chemicals and products.....	44	430	1,678	290	619	808	3,486	(D)	(NA)	(NA)
30	Rubber products.....	5	127	455	91	186	329	290	14	(NA)	(NA)
31	Leather and leather goods.....	16	414	1,047	378	759	877	1,902	28	(NA)	(NA)
32	Stone, clay, & glass products ..	88	1,412	4,687	1,153	2,377	3,403	7,951	986	(NA)	(NA)
33	Primary metal industries.....	9	166	489	149	309	412	998	50	(NA)	(NA)
34	Fabricated metal products.....	147	3,229	10,774	2,468	5,083	7,345	21,493	1,965	(NA)	(NA)
35	Machinery, except electrical...	31	441	1,826	361	746	1,275	3,889	199	(NA)	(NA)
36	Electrical Machinery.....	26	354	1,162	277	501	799	1,959	71	(NA)	(NA)
37	Transportation Equipment.....	39	828	3,064	639	1,330	2,207	3,310	325	(NA)	(NA)
38	Instruments and related prod...	8	216	512	193	384	390	964	28	(NA)	(NA)
39	Miscellaneous manufactures <sup>3</sup> ....	88	874	2,643	711	1,391	1,891	4,307	(D)	(NA)	(NA)

D Withheld to avoid disclosing data for individual companies.

NA Not available.

<sup>1</sup>In order to avoid disclosing data for individual companies, the statistics for some industry groups are not shown. Industry groups reporting less than 100 employees are also omitted. They are included, however, in the "All industries" line.<sup>2</sup>The 1954 and 1947 "All industries" totals are not strictly comparable because of differences in coverage of loggers and fluid milk distributors. See discussion in Introduction and footnote to Table 4 for comparable figures at the State level.<sup>3</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)



20 Food and kindred products	26 Pulp, paper and products	32 Stone, clay, and glass products	38 Instruments and related products
21 Tobacco manufactures	27 Printing and publishing	33 Primary metal industries	39 Miscellaneous manufactures (Includes Group 19 Ordnance and accessories)
22 Textile mill products	28 Chemicals and products	34 Fabricated metal products	
23 Apparel and related products	29 Petroleum and coal products	35 Machinery, except electrical	
24 Lumber and wood products	30 Rubber products	36 Electrical machinery	
25 Furniture and fixtures	31 Leather and leather goods	37 Transportation equipment	

State, county, and size class	Establish- ments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Florida, total.....	4,792	797	59	27	269	1,022	324	65	567	225	19	17	24	337	40	332	166	59	168	27	248
1 to 4 employees.....	2,110	222	27	8	98	513	149	9	328	90	4	9	8	134	13	143	78	31	83	16	147
5 to 9 employees.....	965	162	4	7	49	242	68	3	117	34	7	4	4	76	9	59	36	7	24	6	47
10 to 19 employees.....	651	132	2	6	42	107	46	5	64	29	2	...	7	63	10	50	23	9	25	3	26
20 to 49 employees.....	576	136	4	3	54	94	41	12	30	40	5	2	2	44	3	42	18	6	18	...	23
50 to 99 employees.....	263	68	6	3	18	34	16	10	15	19	1	2	2	14	3	25	7	5	8	2	5
100 to 249 employees.....	152	56	9	...	5	26	3	9	7	8	...	...	1	5	2	10	3	1	6	...	1
250 to 499 employees.....	48	16	3	...	3	5	1	9	3	3	...	...	...	1	...	2	1	...	1	...	...
500 to 999 employees.....	19	4	1	...	...	1	...	7	2	1	...	...	...	...	...	1	...	...	2	...	...
1,000 to 2,499 employees.....	7	1	3	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	1	...	...
2,500 employees and over.....	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
Alachua:																					
1 to 19 employees.....	52	13	...	1	...	23	2	...	4	3	...	...	...	2	1	1	1	...	...	...	1
20 to 99 employees.....	14	3	...	2	1	5	...	...	1	1	...	...	...	...	...	...	1	...	...	...	...
100 employees and over.....	5	1	...	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Baker:																					
1 to 19 employees.....	31	...	...	...	...	30	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Bay:																					
1 to 19 employees.....	29	6	...	...	1	10	2	...	3	1	...	...	...	1	...	1	1	...	2	...	1
20 to 99 employees.....	9	3	...	...	...	1	...	1	2	...	...	...	...	1	...	...	...	...	1	...	...
100 employees and over.....	3	...	...	...	1	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...
Bradford:																					
1 to 19 employees.....	17	2	...	...	...	11	...	...	1	2	...	...	...	...	...	...	...	...	...	...	1
20 to 99 employees.....	2	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Brevard:																					
1 to 19 employees.....	23	4	...	...	2	4	...	...	5	...	...	...	...	3	...	...	2	1	1	...	1
20 to 99 employees.....	2	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...															

(Counties and size classes in which no manufacturing establishments were reported are omitted)

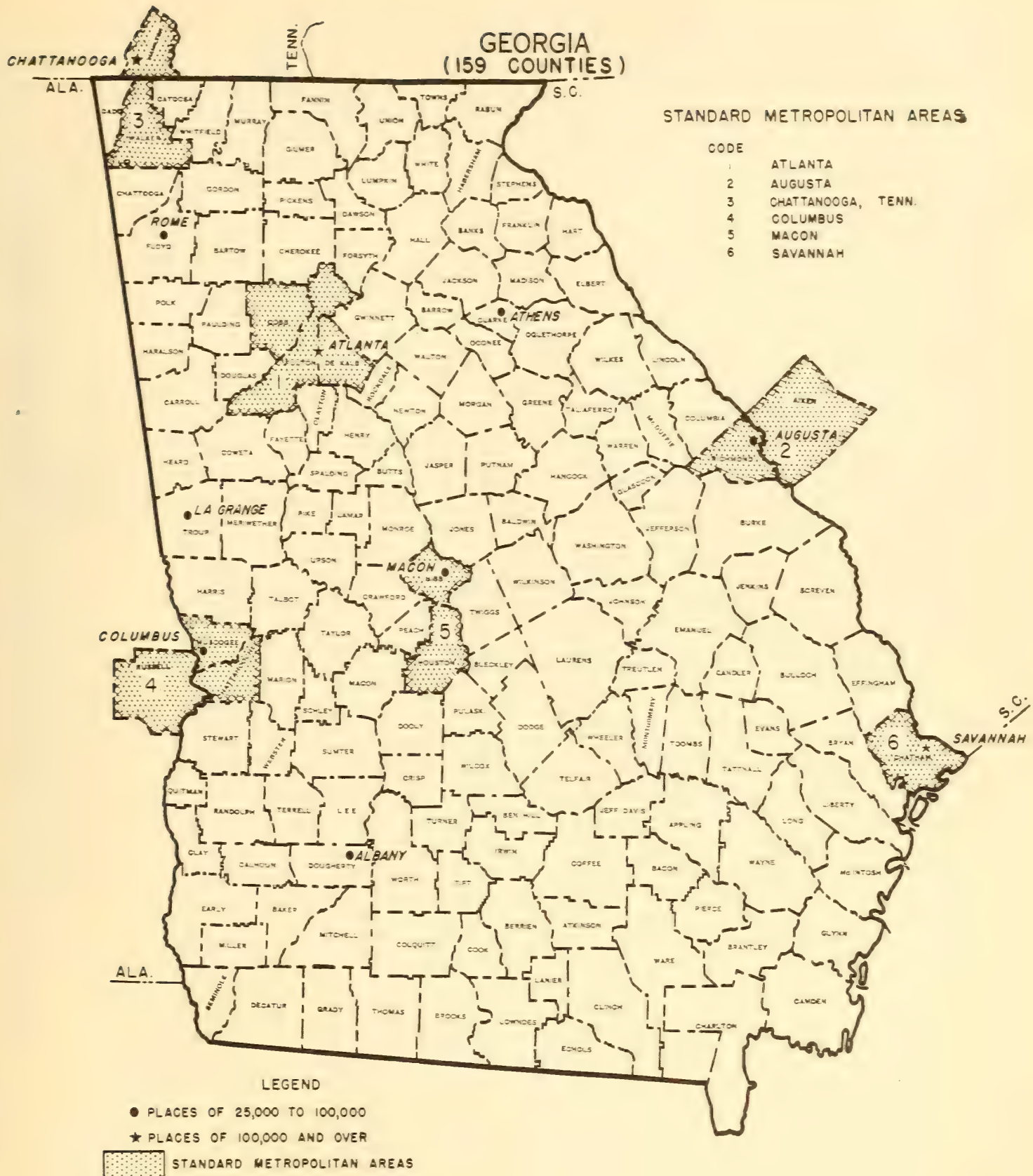
State, county, and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																						
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39			
Glades:																								
1 to 19 employees.....	3	1	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
Gulf:																								
1 to 19 employees.....	10	1	...	...	...	7	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...	...		
20 to 99 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...		
100 employees and over.....	3	...	...	...	...	1	...	...	2	...	...	...	...	3	...	...	...	...	...	...	...	...		
Hamilton:																								
1 to 19 employees.....	12	1	...	...	...	10	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...		
20 to 99 employees.....	3	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
100 employees and over.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
Hardee:																								
1 to 19 employees.....	11	3	...	...	1	5	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...		
20 to 99 employees.....	2	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
Hendry:																								
1 to 19 employees.....	4	...	...	...	...	1	...	...	1	...	...	...	...	1	...	...	1	...	...	...	...	...		
100 employees and over.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
Hernando:																								
1 to 19 employees.....	13	1	...	1	...	10	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...		
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
Highlands:																								
1 to 19 employees.....	11	4	...	...	...	1	...	...	...	1	...	...	...	2	...	...	2	...	1	...	...	...		
20 to 99 employees.....	2	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...		
Hillsborough:																								
1 to 19 employees.....	320	53	23	2	8	28	24	1	60	20	2	2	...	15	7	19	14	7	12	1	1	22		
20 to 99 employees.....	101	32	6	...	3	8	7	5	4	12	...	...	...	6	...	8	4	1	1	...	4	...		
100 employees and over.....	37	14	9	...	2	1	...	3	2	1	...	...	...	1	...	2	...	...	2	...	...	...		
Holmes:																								
1 to 19 employees.....	19	...	...	...	...	17	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...	...		
20 to 99 employees.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
Indian River:																								
1 to 19 employees.....	14	3	...	...	...	1	...	...	4	...	...	...	...	4	...	1	1	...	...	...	...	...		
20 to 99 employees.....	2	2	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...		
100 employees and over.....	1	1	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...		
Jackson:																								
1 to 19 employees.....	37	4	...	...	...	26	...	...	2	2	...	...	...	3	...	...	...	...	...	...	...	...		
20 to 99 employees.....	8	4	...	...	...	2	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...		
100 employees and over.....	2	...	...	...	...	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...		
Jefferson:																								
1 to 19 employees.....	16	4	...	...	...	12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
Lafayette:																								
1 to 19 employees.....	11	1	...	...	...	10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
Lake:																								
1 to 19 employees.....	48	12	...	...	1	10	3	...	6	1	...	...	1	6	...	2	3	...	2	...	1	...		
20 to 99 employees.....	5	4	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...		
100 employees and over.....	3	2	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
Lee:																								
1 to 19 employees.....	46	10	1	...	2	10	...	...	5	...	...	...	...	4	...	2	2	...	5	...	5	...		
20 to 99 employees.....	8	2	...	...	1	1	...	...	1	...	...	1	...	...	...	...	...	...	1	...	1	...		
Leon:																								
1 to 19 employees.....	37	7	...	...	...	15	1	...	5	1	...	...	...	...	1	1	1	...	1	1	3	...		
20 to 99 employees.....	16	5	...	...	...	5	...	...	3	1	...	...	...	1	1	...	...	...	...	...	...	...		
100 employees and over.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
Levy:																								
1 to 19 employees.....	26	1	...	...	...	20	...	...	3	1	...	...	...	1	...	...	...	...	...	...	...	...		
20 to 99 employees.....	4	...	...	...	...	3	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...		
Liberty:																								
1 to 19 employees.....	10	...	...	...	...	10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
20 to 99 employees.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
Madison:																								
1 to 19 employees.....	26	2	...	...	...	23	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...		
20 to 99 employees.....	8	...	...	...	...	6	...	...	1	...	...	...	...	...	...	1	...	...	...	...	...	...		
100 employees and over.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
Manatee:																								
1 to 19 employees.....	44	6	...	...	...	3	3	...	5	2	...	...	...	6	1	3	2	3	4	...	6	...		
20 to 99 employees.....	4	1	...	...	...	...	...	...	1	...	...	...	...	1	...	...	...	...	1	...	...	...		
100 employees and over.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
Marion:																								
1 to 19 employees.....	46	7	...	...	2	22	1	...	6	...	...	...	...	4	...	1	1	2	...	...	...	...		
20 to 99 employees.....	13	5	...	...	...	5	...	...	1	...	...	...	...	2	...	...	...	...	...	...	...	...		
100 employees and over.....	6	2	...	...	1	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
Martin:																								
1 to 19 employees.....	4	1	...	...	...	2	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...		
20 to 99 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...		
Monroe:																								
1 to 19 employees.....	21	9	4	...	...	1	1	...	3	1	...	...	...	...	...	...	...	...	2	...	...	...		
20 to 99 employees.....	2	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...		
Nassau:																								
1 to 19 employees.....	45	3	...	...	1	33	...	...	2	2	...	...	...	...	...	...	2	...	2	...	...	...		
20 to 99 employees.....	6	1	...	...	...	2	...	...	1	2	...	...	...	...	...	...	...	...	...	...	...	...		
100 employees and over.....	5	...	...	...	...	...	...	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
Okaloosa:																								
1 to 19 employees.....	19	5	...	...	...	10	...	...	1	...	...	...	...	2	...	...	...	...	1	...	...	...		
20 to 99 employees.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
100 employees and over.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		

## MANUFACTURES—AREA STATISTICS

Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954—Continued  
(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Okeechobee:																					
1 to 19 employees.....	4	2	...	...	...	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Orange:																					
1 to 19 employees.....	173	22	1	1	5	18	15	...	28	14	1	2	1	19	3	9	10	3	8	5	8
20 to 99 employees.....	27	7	...	...	...	1	3	...	1	4	...	...	...	3	...	5	2	1	...	...	...
100 employees and over.....	10	6	...	...	...	...	...	...	1	...	...	...	...	...	2	1	...	...	...	...	...
Osceola:																					
1 to 19 employees.....	17	3	...	...	...	9	1	...	1	...	...	...	...	2	...	...	...	...	...	...	1
20 to 99 employees.....	4	...	...	...	...	3	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Palm Beach:																					
1 to 19 employees.....	124	18	...	...	3	13	8	...	21	12	...	...	1	16	1	10	7	2	3	1	8
20 to 99 employees.....	24	8	...	...	...	4	2	...	...	1	...	...	...	1	...	2	...	1	5	...	...
100 employees and over.....	2	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Pasco:																					
1 to 19 employees.....	20	1	...	...	...	12	...	...	2	...	...	...	...	4	...	...	1	...	...	...	...
20 to 99 employees.....	4	...	...	...	...	2	...	...	...	1	...	...	...	...	...	1	...	...	...	...	...
100 employees and over.....	3	1	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Pinellas:																					
1 to 19 employees.....	262	28	...	2	9	15	26	2	36	10	1	1	1	24	3	34	17	1	18	5	29
20 to 99 employees.....	24	5	...	1	1	...	3	...	2	...	...	...	1	3	...	2	2	1	...	...	3
100 employees and over.....	9	4	1	...	...	...	...	...	2	1	...	...	...	...	...	...	...	...	...	...	1
Polk:																					
1 to 19 employees.....	85	16	1	...	2	21	3	2	13	6	...	...	2	6	1	2	3	...	1	1	5
20 to 99 employees.....	47	19	2	...	...	4	...	...	3	11	...	...	...	5	...	2	1	...	...	...	...
100 employees and over.....	19	12	...	...	...	1	...	...	...	4	...	...	...	...	...	1	1	...	...	...	...
Putnam:																					
1 to 19 employees.....	45	6	...	...	...	30	1	...	5	...	...	...	...	3	...	...	...	...	...	...	...
20 to 99 employees.....	7	1	...	...	...	5	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	5	...	...	...	...	1	1	3	...	...	...	...	...	...	...	...	...	...	...	...	...
St. Johns:																					
1 to 19 employees.....	39	9	...	...	1	12	...	...	3	1	...	...	...	2	...	...	1	...	6	...	4
20 to 99 employees.....	6	1	...	...	...	1	...	...	2	...	...	...	...	...	...	...	1	...	1	...	...
St. Lucie:																					
1 to 19 employees.....	21	5	...	...	...	4	2	...	2	2	...	1	...	1	...	...	1	...	1	1	1
20 to 99 employees.....	4	2	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Santa Rosa:																					
1 to 19 employees.....	10	3	...	...	...	6	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	2	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sarasota:																					
1 to 19 employees.....	57	12	...	...	3	3	4	...	7	5	1	...	...	7	...	4	1	1	4	...	5
20 to 99 employees.....	7	2	...	...	...	1	...	...	1	...	...	1	...	2	...	...	...	...	...	...	...
Seminole:																					
1 to 19 employees.....	25	4	...	...	1	8	1	...	2	1	...	...	...	4	...	...	1	...	1	...	2
20 to 99 employees.....	4	2	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
100 employees and over.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sumter:																					
1 to 19 employees.....	8	1	...	...	1	3	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Suwannee:																					
1 to 19 employees.....	29	3	...	...	...	23	...	...	1	...	...	...	...	1	...	...	1	...	...	...	...
20 to 99 employees.....	2	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Taylor:																					
1 to 19 employees.....	20	3	...	...	...	16	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	4	...	...	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
Union:																					
1 to 19 employees.....	12	...	...	...	...	12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Volusia:																					
1 to 19 employees.....	100	19	...	1	4	20	7	...	13	1	1	...	...	13	1	1	5	1	4	1	8
20 to 99 employees.....	19	6	...	...	2	4	...	...	1	...	...	...	...	3	...	...	1	...	1	...	1
100 employees and over.....	3	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1	...	...
Wakulla:																					
1 to 19 employees.....	6	...	...	...	...	5	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Walton:																					
1 to 19 employees.....	18	3	...	...	...	12	...	...	2	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Washington:																					
1 to 19 employees.....	21	3	...	...	...	17	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	3	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...





## MANUFACTURES—AREA STATISTICS

Table 1.—MANUFACTURING EMPLOYMENT AT OPERATING ESTABLISHMENTS AND CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARIES FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS

(This table includes data for all manufacturing employees including those located in central administrative offices and auxiliaries. Tables 2-7 in this report include data for operating establishments only. For explanation of column captions see Introduction)

State, standard metropolitan areas, and year <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	(Number)	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
Georgia:						
1954.....	303,278	854,522	301,290	843,557	1,988	10,965
1953 <sup>2</sup> .....	306,367	848,075	303,017	834,347	3,350	13,728
1952 <sup>2</sup> .....	294,506	751,043	292,342	742,243	<sup>3</sup> 2,164	<sup>3</sup> 8,800
1951 <sup>2</sup> .....	284,151	694,781	281,987	685,981	2,164	8,800
1950 <sup>2</sup> .....	292,273	650,897	288,926	640,269	3,347	10,628
1949 <sup>2</sup> .....	270,612	557,949	268,335	550,377	2,277	7,572
1954						
Standard metropolitan areas:						
Atlanta <sup>4</sup> .....	79,839	294,965	78,500	287,673	1,339	7,292
Augusta <sup>5</sup> .....	27,764	112,133	27,748	112,011	16	122
Chattanooga <sup>6</sup> .....	43,019	145,186	42,759	143,569	260	1,617
Columbus <sup>7</sup> .....	17,976	44,097	17,913	43,788	63	309
Macon <sup>8</sup> .....	10,770	31,441	10,542	30,137	228	1,304
Savannah <sup>9</sup> .....	13,412	47,774	13,323	47,275	89	499

<sup>1</sup>Employment data for administrative offices and auxiliaries on a State basis are not available for the years prior to 1949. Similar data for standard metropolitan areas are available only for 1954.

<sup>2</sup>The employment figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period. The employment figures for administrative and auxiliary units were compiled chiefly from Bureau of Old-Age and Survivors Insurance records and are not strictly comparable with the figures for these units that were collected by the Bureau of the Census for the year 1954.

<sup>3</sup>The 1951 data are shown for 1952 since auxiliary and administrative unit data were not collected in 1952.

<sup>4</sup>The Atlanta Standard Metropolitan Area consists of Cobb, De Kalb and Fulton Counties, Georgia.

<sup>5</sup>The Augusta Standard Metropolitan Area consists of Richmond County, Georgia; Aiken County, South Carolina.

<sup>6</sup>The Chattanooga Standard Metropolitan Area consists of Walker County, Georgia; Hamilton County, Tennessee.

<sup>7</sup>The Columbus Standard Metropolitan Area consists of Chattahoochee and Muscogee Counties, Georgia; Russell County, Alabama.

<sup>8</sup>The Macon Standard Metropolitan Area consists of Bibb and Houston Counties, Georgia.

<sup>9</sup>The Savannah Standard Metropolitan Area consists of Chatham County, Georgia.

GEORGIA

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Table 2.—GENERAL STATISTICS FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Year	Establish- ments, number	All employees		Production workers		Value added by manufacture (\$1,000)	
		Number	Payroll (\$1,000)	Number	Wages (\$1,000)		
		GEORGIA					
1954 <sup>1</sup> .....	5,654	301,290	843,557	260,082	642,582	1,592,411	
1953 <sup>2</sup> .....	}	303,017	834,347	263,447	650,485	1,545,467	
1952 <sup>2</sup> .....		292,342	742,243	259,268	587,871	1,355,318	
1951 <sup>2</sup> .....		281,987	685,981	253,182	556,350	1,332,659	
1950 <sup>2</sup> .....		(NA)	288,926	640,269	251,117	513,178	1,235,957
1949 <sup>2</sup> .....			268,335	550,377	235,190	431,290	1,001,242
1947.....	4,755	249,958	484,289	225,838	399,862	1,016,079	
1939.....	3,055	176,965	142,021	155,870	106,195	280,032	
1937.....	2,875	172,045	132,130	159,496	110,501	269,507	
1935.....	2,834	150,196	101,740	139,650	81,495	187,249	
1933.....	2,223	(NA)	(NA)	128,736	67,415	169,334	
1931.....	2,851			119,531	74,918	182,981	
1929.....	4,179	171,734	140,674	158,774	110,435	294,649	
1927.....	3,175	}	(NA)	154,168	108,118	249,656	
1925.....	2,876			141,173	99,210	249,501	
1923.....	3,058	}	(NA)	137,476	92,144	222,684	
1921.....	2,809			98,264	69,916	137,358	
1919.....	4,608	135,263	125,503	122,578	100,146	251,098	
1914.....	4,622	114,028	49,882	104,373	38,065	93,070	
1909.....	4,792	112,895	43,867	104,588	34,805	85,893	
1904.....	3,219	98,853	33,320	92,749	27,392	67,416	
1899.....	3,015	87,151	23,162	83,336	19,958	45,176	
		ATLANTA STANDARD METROPOLITAN AREA					
1954 <sup>1</sup> .....	1,088	78,500	287,673	61,083	192,992	552,009	
1947.....	871	49,030	112,164	40,543	81,071	237,448	
1939.....	620	31,166	32,302	27,692	24,515	81,663	
1929.....	625	31,473	37,060	26,554	24,878	94,108	
1919.....	676	(NA)	(NA)	22,362	21,482	60,993	

NA Not available.

<sup>1</sup>The 1954 figures include data for establishments engaged in the processing and distribution of fluid milk, Industry Group 202, Dairy Products. These establishments were not included in the figures for the Annual Survey years 1949-1953 or earlier Census years. In addition, the 1954 Census and Annual Survey years include data for Logging camps and contractors, Industry 2411, which were not included within the scope of the 1947 Census. See footnotes to Table 4 for comparable 1954 and 1947 totals. There were also a number of changes in the definition of manufacturing industries during earlier Census years that affect the comparability of the historical series. Among the more important of these were: figures for 1935 and later years exclude data for "Railroad repair shops" and "Manufactured gas" which were included in 1899-1933 figures; the minimum size of establishment included for 1954 and 1947 was one employee, for 1939-1921 manufacturing establishments reporting value of shipments of \$5,000 or more were within scope whereas for 1919 and earlier years the cutoff was \$500. (This change in procedure has not appreciably affected the comparability of the historical data except for the figures on number of establishments.)

<sup>2</sup>The employment and payroll figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period.



## MANUFACTURES--AREA STATISTICS

Table 3.--GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
Georgia, total.....	3,444,578	5,655	301,290	843,557	260,082	503,497	642,582	1,592,411	162,849	1249,958	11,016,079
STANDARD METROPOLITAN AREA											
Atlanta area.....	671,797	1,088	78,500	287,673	61,083	121,790	192,992	552,009	24,684	49,030	237,448
Augusta area, total.....	162,013	175	27,748	112,011	16,079	32,171	47,730	152,594	4,096	15,094	56,444
Portion in Georgia.....	108,876	126	8,602	24,507	7,152	14,413	17,647	46,453	2,502	8,939	37,295
Portion in South Carolina.....	53,137	49	19,146	87,504	8,927	17,758	30,083	106,141	1,594	6,155	19,149
Chattanooga area, total.....	246,453	410	42,759	143,569	35,724	69,907	107,515	277,314	33,496	38,193	149,104
Portion in Georgia.....	38,198	45	5,693	15,122	5,172	10,615	12,724	26,425	1,338	5,009	20,253
Portion in Tennessee.....	208,255	365	37,066	128,447	30,552	59,292	94,791	250,889	32,158	33,184	128,851
Columbus area, total.....	170,541	177	17,913	43,788	15,830	30,295	34,684	69,944	3,812	19,990	90,156
Portion in Georgia.....	130,177	124	17,046	42,068	15,032	28,774	33,195	67,202	3,474	19,059	87,281
Portion in Alabama.....	40,364	53	867	1,720	798	1,521	1,489	2,742	338	931	2,875
Macon area.....	135,043	174	10,542	30,137	8,831	17,556	22,183	68,507	5,190	8,789	36,445
Savannah area.....	151,481	179	13,323	47,275	10,789	22,210	34,108	152,664	8,375	11,042	75,177
COUNTIES											
Appling.....	14,003	23	360	698	324	656	565	1,177	41	86	286
Atkinson.....	7,362	8	188	348	177	351	303	519	15	168	480
Bacon.....	8,940	13	102	163	90	169	136	389	15	51	94
Baker.....	5,952	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	143	(D)
Baldwin.....	29,706	32	1,318	3,962	1,259	2,610	3,051	9,225	300	543	1,876
Banks.....	6,935	9	34	43	32	41	39	94	18	142	212
Barrow.....	13,115	27	2,514	4,618	2,319	4,263	3,840	6,097	809	1,841	5,103
Bartow.....	27,370	37	2,273	5,570	2,098	3,906	4,693	9,770	967	2,796	8,437
Ben Hill.....	14,879	20	801	1,645	727	1,305	1,409	2,476	133	855	2,169
Berrien.....	13,966	26	260	508	225	461	420	861	54	128	331
Bibb.....	114,079	158	10,094	28,969	8,426	16,787	21,212	65,744	5,073	8,372	34,594
Bleckley.....	9,218	12	680	1,188	655	1,199	1,127	1,508	121	498	1,174
Brantley.....	6,387	14	147	297	136	265	265	552	94	79	(D)
Brooks.....	18,169	25	458	964	360	644	627	1,485	162	516	1,256
Bryan.....	5,965	17	87	151	76	131	110	256	37	120	(D)
Bulloch.....	24,740	38	424	807	357	728	650	1,361	151	321	947
Burke.....	23,458	28	695	1,391	642	1,215	1,149	2,502	104	707	1,807
Butts.....	9,079	16	676	1,503	642	1,143	1,324	2,120	276	661	(D)
Calhoun.....	8,578	15	175	273	156	289	219	637	32	89	247
Camden.....	7,322	55	1,211	(D)	1,079	(D)	(D)	(D)	(D)	783	(D)
Candler.....	8,063	7	138	239	130	241	213	509	21	56	93
Carroll.....	34,112	73	3,031	6,663	2,780	5,121	5,681	9,594	1,123	2,279	5,116
Catoosa.....	15,146	16	351	938	300	635	684	1,295	90	156	(D)
Charlton.....	4,821	31	221	446	201	375	416	668	46	57	92
Chatham.....	151,481	179	13,323	47,275	10,789	22,210	34,108	152,664	8,375	11,042	75,177
Chattahoochee.....	12,149	...	...	...	...	...	...	...	...	170	328
Chattooga.....	21,197	20	4,329	11,274	4,056	8,079	9,898	20,606	572	4,752	16,719
Cherokee.....	20,750	45	2,319	5,057	2,175	3,983	4,398	7,479	547	1,726	9,097
Clarke.....	36,550	71	3,476	8,625	3,033	6,324	6,791	15,687	579	2,851	10,211
Clay.....	5,844	7	90	130	80	139	108	109	(D)	93	(D)
Clayton.....	22,872	27	259	620	212	370	446	1,097	71	196	495
Clinch.....	6,007	36	601	1,133	557	1,038	987	1,759	165	105	232
Cobb.....	61,830	77	18,497	81,314	13,556	27,589	50,866	123,217	4,856	3,517	10,278
Coffee.....	23,961	47	901	1,973	745	1,395	1,460	3,018	277	706	2,155
Colquitt.....	33,999	51	1,967	6,000	1,642	3,342	4,550	9,371	292	1,606	5,263
Columbia.....	9,525	20	252	472	226	420	365	564	26	450	825
Cook.....	12,201	20	462	951	434	867	831	1,861	74	129	440
Coweta.....	27,786	48	4,150	9,405	3,842	7,080	8,251	17,239	708	3,993	14,232
Crawford.....	6,080	13	177	279	166	293	248	472	13	256	598
Crisp.....	17,663	33	1,309	3,392	1,140	2,285	2,673	4,669	286	965	3,263
Dade.....	7,364	13	151	242	134	252	208	432	4	107	463
Dawson.....	3,712	10	159	187	148	179	167	241	29	124	195
Decatur.....	23,620	24	1,070	2,603	881	1,704	1,830	4,071	166	1,423	4,466
DeKalb.....	136,395	146	6,907	27,862	5,821	12,144	21,242	70,319	2,897	2,887	9,768
Dodge.....	17,865	24	620	1,351	511	987	1,042	1,890	138	510	2,149
Dooly.....	14,159	8	244	388	234	397	365	660	28	459	1,123
Dougherty.....	43,617	71	3,138	8,910	2,515	5,203	6,188	14,469	3,509	2,053	8,722
Douglas.....	12,173	15	553	1,197	530	983	1,113	1,425	19	736	1,769
Early.....	17,413	21	216	317	200	378	295	665	84	324	934
Echols.....	2,494	6	36	82	30	62	71	152	8	(D)	(D)
Effingham.....	9,133	31	148	194	128	159	165	450	39	132	(D)
Elbert.....	18,585	56	1,494	4,067	1,268	2,403	3,201	6,621	372	1,104	3,391
Emanuel.....	19,789	27	551	981	510	978	865	1,485	72	413	1,194
Evans.....	6,653	16	171	358	140	245	278	921	41	120	313
Fanning.....	15,192	15	231	647	177	287	417	1,323	124	511	1,444

See footnotes at end of table.

GEORGIA

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Table 3.--GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
Fayette.....	7,978	12	147	212	134	213	190	471	43	111	197
Floyd.....	62,899	94	10,353	30,021	8,986	17,644	23,751	46,517	6,103	10,636	47,713
Forsyth.....	11,005	19	341	719	322	641	626	1,057	190	260	(D)
Franklin.....	14,446	27	1,252	2,559	1,133	2,137	2,182	3,733	58	514	1,396
Fulton.....	473,572	865	53,096	178,497	41,706	82,057	120,884	358,472	16,931	42,626	217,402
Gilmer.....	9,963	33	822	1,446	760	1,354	1,201	2,727	55	525	1,015
Glascock.....	3,579	16	35	247	129	202	193	441	22	143	223
Glynn.....	29,046	65	3,766	12,290	3,098	6,447	9,237	44,628	2,976	2,187	25,358
Gordon.....	18,922	40	2,223	4,072	2,086	3,626	3,399	8,212	631	1,550	5,305
Grady.....	18,928	23	815	1,601	735	1,470	1,227	2,469	249	602	1,522
Greene.....	12,843	41	1,264	2,517	1,184	2,179	2,219	3,494	184	1,460	5,311
Gwinnett.....	32,320	49	1,868	4,622	1,723	3,445	3,783	7,945	146	1,776	4,824
Habersham.....	16,553	57	2,087	4,861	1,880	3,731	4,050	8,929	258	1,249	4,278
Hall.....	40,113	76	5,807	15,405	5,361	10,955	13,518	27,619	1,355	4,923	22,872
Hancock.....	11,052	24	368	571	339	539	507	1,054	78	364	1,108
Haralson.....	14,663	18	3,092	9,543	2,887	5,369	7,038	14,928	449	2,367	7,548
Harris.....	11,265	30	374	640	352	647	561	1,122	22	403	514
Hart.....	14,495	16	985	2,457	936	1,996	2,283	3,818	158	410	1,615
Heard.....	6,975	13	73	105	68	92	92	190	24	169	272
Henry.....	15,857	22	745	2,190	575	985	1,375	3,269	184	812	2,049
Houston.....	20,964	16	448	1,168	405	769	971	2,763	117	417	1,851
Irwin.....	11,973	13	152	268	139	291	244	367	68	(D)	(D)
Jackson.....	18,997	18	2,491	5,376	2,370	4,457	4,758	8,212	355	2,226	7,527
Jasper.....	7,473	19	288	509	267	466	446	763	36	519	929
Jeff Davis.....	9,299	18	619	1,233	572	996	1,073	2,161	130	182	(D)
Jefferson.....	18,855	48	1,148	2,001	1,074	1,952	1,750	3,169	165	483	1,056
Jenkins.....	10,264	11	561	939	541	969	883	1,264	17	403	1,033
Johnson.....	9,893	8	425	765	415	784	745	1,391	32	67	119
Jones.....	7,538	18	567	744	528	687	632	960	120	779	1,711
Lamar.....	10,242	18	1,644	4,234	1,566	2,966	3,859	5,931	910	1,267	(D)
Lanier.....	5,151	11	54	104	47	87	93	148	28	29	(D)
Laurens.....	33,123	41	1,361	3,348	1,239	2,674	2,888	6,957	227	632	2,145
Lee.....	6,674	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Liberty.....	8,444	19	250	456	208	405	357	638	51	331	896
Lincoln.....	6,462	30	369	511	349	525	476	726	66	369	866
Long.....	3,598	7	149	269	142	306	247	371	3	61	(D)
Lowndes.....	35,211	74	2,268	7,158	1,959	4,238	5,457	11,897	26,072	2,182	7,790
Lumpkins.....	6,574	8	42	50	37	47	41	74	2	241	403
McDuffie.....	11,443	18	1,188	2,716	1,075	2,010	2,153	5,015	71	1,181	2,766
McIntosh.....	6,008	17	193	325	182	358	309	527	86	128	385
Macon.....	14,213	23	512	900	450	716	723	1,504	19	495	761
Madison.....	12,238	12	102	136	93	147	114	207	10	93	114
Marion.....	6,521	11	202	341	194	147	296	638	31	352	840
Meriwether.....	21,055	27	1,544	3,335	1,443	2,455	2,930	4,745	220	1,772	4,863
Miller.....	9,023	9	63	(D)	43	(D)	(D)	(D)	(D)	(D)	(D)
Mitchell.....	22,528	28	921	1,991	847	1,694	1,722	2,846	513	962	2,402
Monroe.....	10,523	36	516	958	476	835	827	1,510	45	727	1,934
Montgomery.....	7,901	12	303	585	282	508	481	829	57	235	(D)
Morgan.....	11,899	20	464	833	416	820	694	1,370	34	553	990
Murray.....	10,676	25	424	832	400	822	740	1,917	146	450	1,210
Muscogee.....	118,028	124	17,046	42,068	15,032	28,774	33,195	67,202	3,474	18,889	86,953
Newton.....	20,185	29	3,274	6,946	3,050	5,640	6,238	9,394	659	3,225	(D)
Oconee.....	7,009	7	101	155	90	161	142	209	10	261	373
Oglethorpe.....	9,958	16	440	1,017	419	871	912	1,181	180	570	1,546
Paulding.....	11,752	31	493	976	471	924	902	1,659	61	487	1,209
Peach.....	11,705	13	864	2,115	745	1,371	1,557	3,671	137	800	3,599
Pickens.....	8,855	28	1,142	2,547	1,040	2,025	2,154	4,509	177	837	2,625
Pierce.....	11,112	12	272	483	254	503	411	836	46	148	479
Pike.....	8,459	11	265	347	248	370	300	427	13	291	515
Polk.....	30,976	38	3,696	9,441	3,351	6,104	7,907	19,429	5,211	5,414	16,806
Pulaski.....	8,808	12	314	755	293	641	683	1,018	102	376	1,058
Putnam.....	7,731	26	890	2,146	829	1,549	1,891	3,358	57	870	3,005
Quitman.....	3,015	12	122	161	110	165	138	334	14	108	183
Rabun.....	7,424	16	570	958	541	1,006	887	1,299	46	185	337
Randolph.....	13,804	22	540	1,100	503	1,049	924	2,207	34	677	1,700
Richmond.....	108,876	126	8,602	24,507	7,152	14,413	17,647	46,453	2,502	8,939	37,295
Rockdale.....	8,464	8	855	1,971	806	1,378	1,699	2,986	10	958	(D)
Schley.....	4,036	8	42	59	37	65	49	104	24	56	90
Screven.....	18,000	41	693	1,242	640	1,243	1,097	1,750	89	459	1,203
Seminole.....	7,904	12	118	221	104	202	183	289	13	102	375

See footnotes at end of table.



## MANUFACTURES—AREA STATISTICS

Table 3.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
Spalding.....	31,045	48	7,082	15,884	6,602	12,048	13,865	20,972	547	6,831	24,447
Stephens.....	16,647	38	3,407	8,968	3,065	6,295	7,237	15,867	5,344	3,314	10,120
Stewart.....	9,194	16	262	332	253	424	315	622	30	443	(D)
Sumter.....	24,208	33	1,476	3,099	1,355	2,522	2,703	5,897	149	1,211	3,479
Talbot.....	7,687	31	352	582	322	558	473	906	26	446	775
Taliaferro.....	4,515	13	253	330	241	388	312	456	13	149	315
Tattnall.....	15,939	14	118	183	98	159	135	355	27	128	378
Taylor.....	9,113	15	174	278	159	254	252	417	19	283	914
Telfair.....	13,221	35	783	1,422	712	1,361	1,209	1,959	155	214	785
Terrell.....	14,314	15	550	1,100	522	1,064	1,016	981	67	464	1,828
Thomas.....	33,932	62	2,495	6,129	1,985	3,843	4,277	9,777	628	1,602	6,364
Tift.....	22,645	45	1,302	3,476	1,093	2,121	2,669	3,545	143	1,164	3,628
Toombs.....	17,382	40	975	1,635	916	1,811	1,463	2,487	201	455	941
Towns.....	4,803	3	21	33	21	36	24	53	(D)	(D)	(D)
Treutlen.....	6,522	8	210	386	201	379	358	655	15	36	(D)
Troup.....	49,841	69	9,716	22,998	9,147	16,356	20,293	32,802	976	9,927	28,760
Turner.....	10,479	7	184	446	161	333	396	1,474	40	309	946
Twiggs.....	8,308	10	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Union.....	7,318	17	76	86	69	107	79	102	4	44	91
Upson.....	25,078	28	5,082	12,964	4,772	8,864	11,742	24,339	3,054	5,897	(D)
Walker.....	38,198	45	5,693	15,122	5,172	10,615	12,724	26,425	1,338	5,009	20,253
Walton.....	20,230	23	2,301	5,010	2,160	3,983	4,353	6,473	198	1,912	6,316
Ware.....	30,289	54	2,036	4,243	1,809	3,380	3,566	9,081	191	909	2,637
Warren.....	8,779	9	135	285	114	197	207	476	21	160	283
Washington.....	21,012	38	715	1,231	657	1,151	1,081	1,677	87	895	2,112
Wayne.....	14,248	34	1,321	3,972	1,132	2,516	3,314	4,250	24,475	664	1,349
Webster.....	4,081	8	130	226	119	198	195	325	72	180	616
Wheeler.....	6,712	11	59	100	52	81	69	152	18	94	159
White.....	5,951	11	469	911	447	825	803	2,138	1,703	151	243
Whitfield.....	34,432	153	8,809	19,815	8,077	14,790	16,242	38,126	2,415	5,907	21,801
Wilcox.....	10,167	10	115	214	104	210	193	248	9	106	283
Wilkes.....	12,388	38	839	1,633	778	1,373	1,431	3,352	86	901	1,720
Wilkinson.....	9,781	30	415	680	391	649	597	1,670	78	281	660
Worth.....	19,357	16	243	452	219	377	374	740	29	266	758
CITIES WITH 10,000 INHAB- ITANTS OR MORE											
Albany.....	31,155	62	2,935	(D)	2,342	(D)	(D)	(D)	(D)	1,032	4,240
Americus.....	11,389	22	947	2,246	859	1,707	1,977	4,726	80	(NA)	(NA)
Athens.....	28,180	57	2,834	7,123	2,456	5,209	5,664	13,571	465	1,909	6,519
Atlanta.....	331,314	761	47,903	162,406	37,381	73,984	108,528	314,383	14,498	34,218	173,069
Augusta.....	71,578	87	6,875	19,341	5,699	11,359	13,841	36,822	1,563	7,814	32,159
Brunswick.....	17,954	37	2,963	10,691	2,395	4,960	8,061	40,147	2,592	1,545	(D)
College Park.....	14,535	8	135	386	112	186	232	711	50	(NA)	(NA)
Columbus.....	79,611	104	14,167	36,143	12,320	24,013	27,862	65,628	3,174	15,053	68,425
Dalton.....	15,968	111	7,339	16,593	6,727	12,514	13,675	32,887	2,184	4,782	16,350
Decatur.....	21,635	25	475	1,846	379	672	1,121	2,992	455	201	767
Dublin.....	10,232	21	641	1,335	583	1,272	1,109	2,183	89	(NA)	(NA)
East Point.....	21,080	49	2,881	(D)	2,218	(D)	(D)	(D)	(D)	1,376	7,444
Gainesville.....	11,936	40	1,949	5,003	1,701	3,351	3,997	9,616	697	1,390	(D)
Griffin.....	13,982	34	5,771	12,959	5,351	9,653	11,227	17,832	475	3,501	(D)
La Grange.....	25,025	30	7,962	18,359	7,587	13,382	16,459	24,903	641	8,100	22,697
Macon.....	70,252	108	7,597	21,452	6,285	12,668	15,454	42,901	1,868	7,254	29,633
Marietta.....	20,687	26	1,539	(D)	1,297	(D)	(D)	(D)	(D)	(NA)	(NA)
Moultrie.....	11,639	26	861	2,359	700	1,467	1,626	4,773	168	1,119	(D)
Rome.....	29,615	65	4,010	10,360	3,407	6,654	7,609	15,945	699	3,982	12,708
Savannah.....	119,638	107	2,854	9,028	2,151	4,300	5,900	18,246	762	3,506	16,247
Thomasville.....	14,424	43	2,229	5,564	1,736	3,327	3,828	8,702	558	892	(D)
Valdosta.....	20,046	53	1,585	4,226	1,369	2,852	3,041	6,530	567	1,456	4,958
Waycross.....	18,899	33	1,798	3,622	1,630	3,017	3,144	7,999	118	825	2,473

D Withheld to avoid disclosing figures for individual companies.

NA Not Available.

<sup>1</sup>The 1947 data are not strictly comparable with the figures shown for 1954 due to differences in coverage of loggers and fluid milk distributors. See discussion in Introduction and footnotes to Table 4.<sup>2</sup>The boundaries of selected cities have been modified since 1947. In such cases the 1947 and 1954 data may not be strictly comparable.



Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954										1947	
		Establishments, number		All employees		Production workers			Value added by manufacture	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
	All industries, total <sup>1</sup> ..	5,655	1,713	301,290	843,557	260,082	503,497	642,582	1,592,411	( <sup>2</sup> )	162,849	249,958	21,016,079
20	Food and kindred products.....	811	284	34,595	100,330	24,255	49,944	58,857	263,797	( <sup>2</sup> )	15,664	( <sup>4</sup> )	( <sup>4</sup> )
201	Meat products.....	129	65	8,569	25,453	6,864	14,243	18,221	40,250	( <sup>2</sup> )	2,352	5,377	18,037
2011	Meat packing, plants.....	60	32	4,160	15,374	2,995	6,368	10,523	20,446	( <sup>2</sup> )	1,454	3,520	12,462
2013	Prepared meats.....	34	7	479	1,444	345	655	824	3,045	( <sup>2</sup> )	297	900	3,134
2015	Poultry dressing, plants.....	35	26	3,930	8,635	3,524	7,219	6,873	16,795	123,670	600	957	2,441
202	Dairy products.....	117	34	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2024	Ice cream and ices.....	18	8	454	1,494	237	547	646	2,917	6,799	270	( <sup>4</sup> )	( <sup>4</sup> )
2026	Fluid milk.....	31	2	231	494	159	327	313	1,018	4,040	100	( <sup>4</sup> )	( <sup>4</sup> )
2027	Fluid milk and other products.....	58	23	2,647	8,260	1,066	2,478	2,860	15,275	48,283	1,579	( <sup>4</sup> )	( <sup>4</sup> )
203	Canned and frozen foods.....	44	28	4,037	7,156	3,657	6,590	5,467	14,688	( <sup>2</sup> )	1,161	3,255	8,081
2035	Pickles and sauces.....	10	6	987	2,300	835	1,688	1,626	4,239	20,312	266	528	3,390
2036	Packaged seafood.....	6	5	1,291	2,010	1,206	2,429	1,618	5,367	15,881	591	(NA)	(NA)
204	Grain mill products.....	101	24	1,977	5,675	1,471	3,211	3,453	13,146	( <sup>2</sup> )	1,033	1,393	7,742
2042	Prepared animal feeds.....	72	21	1,689	4,978	1,258	2,793	3,050	11,821	67,467	917	915	5,495
205	Bakery products.....	65	33	5,527	18,919	3,764	7,976	10,687	47,095	( <sup>2</sup> )	5,085	4,458	25,974
2051	Bread and related products....	59	28	3,922	13,637	2,351	5,160	6,354	25,475	52,751	1,148	3,191	(D)
2052	Biscuits and crackers.....	6	5	1,605	5,282	1,412	2,816	4,333	21,619	38,954	3,936	1,267	(D)
207	Candy and related products..	30	11	2,387	5,849	2,003	4,070	4,080	11,837	28,325	342	2,796	10,601
2071	Confectionery products.....	30	11	2,387	5,849	2,003	4,070	4,080	11,837	28,325	342	2,796	10,601
208	Beverages.....	150	47	3,348	9,382	1,465	3,010	3,007	21,111	( <sup>2</sup> )	1,072	2,922	16,750
209	Miscellaneous foods.....	174	41	4,238	12,566	2,624	5,128	5,988	84,343	( <sup>2</sup> )	1,475	5,039	34,281
2092	Shortening and cooking oils...	4	3	492	1,746	346	673	1,070	39,159	81,501	353	468	(D)
2093	Margarine.....	5	4	198	730	131	271	409	2,527	12,757	30	(D)	(D)
2095	Flavoring.....	11	3	534	2,028	235	443	628	24,613	38,502	376	501	12,813
2097	Manufactured ice.....	115	17	1,391	2,947	768	1,350	1,260	5,122	6,521	364	2,686	9,784
2099	Food preparations, n.e.c.....	39	14	1,622	5,113	1,141	2,389	2,620	12,920	37,242	351	(D)	(D)
21	Tobacco manufactures.....	3	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
22	Textile mill products.....	328	271	103,079	251,339	96,767	183,126	221,595	379,814	( <sup>2</sup> )	30,294	102,535	398,023
221	Woolen and worsted manufactures.....	9	9	4,386	12,589	3,974	8,244	10,665	25,454	( <sup>2</sup> )	2,662	2,752	12,110
222	Yarn and thread mills.....	54	52	21,377	50,314	20,041	36,571	44,510	74,377	( <sup>2</sup> )	11,797	30,435	115,397
2224	Yarn mills, cotton system.....	44	43	16,845	39,107	15,924	28,873	35,111	61,645	247,471	6,161	28,895	(D)
223	Broad-woven fabrics.....	90	87	56,249	139,655	53,280	101,484	125,163	192,457	( <sup>2</sup> )	8,945	53,717	218,968
2233	Cotton broad-woven fabrics....	77	74	52,140	127,754	49,494	93,505	114,917	172,824	463,508	8,207	50,393	205,640
2234	Synthetic broad-woven fabrics.	13	13	4,109	11,900	3,786	7,978	10,246	19,632	56,696	738	3,324	13,328
2241	Narrow fabric mills.....	11	5	363	892	341	653	786	1,737	3,369	27	215	(D)
225	Knitting mills.....	69	52	10,188	22,820	9,535	17,281	19,966	32,986	( <sup>2</sup> )	1,909	10,256	32,544
2251	Full-fashioned hosiery mills...	19	12	2,012	5,845	1,859	3,421	5,081	9,114	16,261	167	2,237	8,841
2252	Seamless hosiery mills.....	39	31	5,394	10,563	5,086	9,032	9,235	13,818	27,538	677	6,205	15,924
2254	Knit underwear mills.....	6	6	2,444	5,699	2,279	4,233	5,040	9,041	18,308	1,008	1,590	6,991
2261	Finishing textiles, exc. wool	10	9	2,327	5,941	2,193	4,423	5,375	9,503	21,371	1,308	1,766	7,642
227	Carpets and rugs.....	64	45	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2273	Carpets and rugs, except wool.	62	44	5,798	13,797	5,195	10,164	10,717	35,243	101,898	3,004	1,114	3,123
229	Miscellaneous textile goods.	19	12	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2293	Padding and upholstery filling	5	1	458	1,114	418	845	841	1,267	4,580	(D)	(D)	(D)
2294	Processed textile waste.....	4	3	325	914	282	605	615	1,504	4,636	209	833	(D)
2299	Textile goods, n.e.c.....	5	4	319	658	298	584	562	1,278	2,835	39	(NA)	(NA)
23	Apparel and related products.....	316	217	36,552	76,876	34,075	62,244	64,377	119,209	( <sup>2</sup> )	4,128	25,041	76,164
231	Men's and boys' suits and coats.....	7	6	2,475	7,865	2,320	4,415	5,805	11,639	( <sup>2</sup> )	127	1,589	6,706
232	Men's and boys' furnishings.	116	108	21,564	42,561	20,083	36,610	36,314	66,044	( <sup>2</sup> )	2,757	12,819	31,807
2321	Men's dress shirts & nightwear	37	36	7,846	15,966	7,435	13,494	14,552	29,807	56,257	1,198	4,448	11,581
2327	Separate trousers.....	27	26	5,381	10,700	5,096	9,478	8,920	14,378	31,379	682	2,801	7,612
2329	Men's and boys' clothing, n.e.c.	46	40	7,463	14,301	6,712	12,060	11,397	19,216	53,381	830	4,873	11,451
233	Women's and misses' outerwear	32	21	1,252	2,601	1,131	1,941	2,010	3,870	( <sup>2</sup> )	56	886	2,224
2333	Dresses, unit price.....	7	5	366	924	324	563	660	1,292	2,231	11	452	1,099
2334	Dresses, dozen price.....	7	4	261	581	213	398	393	861	1,959	21	304	(D)
2337	Women's suits, coats, & skirts	10	6	270	515	253	432	441	885	1,867	4	(NA)	(NA)
234	Women's under garments.....	19	13	2,712	6,893	2,558	4,904	6,033	10,663	( <sup>2</sup> )	389	666	(D)
2341	Women's & children's underwear	11	7	944	1,866	873	1,510	1,543	2,699	5,588	101	58	(D)
2342	Corsets and allied garments...	8	6	1,768	5,027	1,685	3,394	4,490	7,963	11,692	287	608	(D)
236	Children's outerwear.....	14	7	652	1,333	592	1,156	1,080	2,177	( <sup>2</sup> )	68	(D)	(D)
238	Miscellaneous apparel.....	19	14	1,650	3,027	1,564	2,774	2,712	4,033	( <sup>2</sup> )	95	2,119	6,584
2384	Robes and dressing gowns.....	11	8	815	1,406	785	1,366	1,246	1,984	4,709	53	1,131	(D)
2385	Waterproof outer garments....	4	3	506	1,001	483	830	924	1,342	2,374	32	(D)	(D)
239	Fabricated textiles, n.e.c.....	106	46	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2392	Housefurnishing, n.e.c.....	69	34	5,148	9,966	4,887	8,653	8,626	16,423	50,770	546	5,545	19,754
2393	Textile bags.....	4	3	289	658	251	472	429	1,126	4,686	(D)	547	2,943
2394	Canvas products.....	9	2	206	588	163	310	314	775	1,887	16	99	(D)
2399	Textile products, n.e.c.....	14	5	284	727	245	487	501	1,445	4,088	33	378	1,497

See footnotes at end of table.

## MANUFACTURES—AREA STATISTICS

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry	1954										1947	
		Establish- ments, number		All employees		Production workers			Value added by manufacture	Value of shipments	Capital expendi- tures, new	All employees, number	Value added by manufacture
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
24	Lumber and wood products...	2,355	346	32,329	60,542	29,819	54,521	51,266	101,530	(2)	5,812	(4)	(4)
2411	Logging camps & contractors..	804	11	3,954	6,081	3,411	5,586	5,281	12,331	20,731	1,282	(4)	(4)
242	Lumber and basic products....	1,388	264	20,233	35,100	18,945	33,805	30,469	58,783	(2)	3,178	26,885	67,603
2421	Sawmills and planing mills....	1,369	249	19,368	33,343	18,134	32,181	29,010	55,927	139,299	2,709	25,826	65,157
2422	Veneer mills.....	15	13	738	1,486	701	1,420	1,291	2,430	4,572	454	894	2,017
243	Millwork and related products	69	24	2,922	7,649	2,592	5,688	5,754	10,284	(2)	591	2,433	7,307
2432	Plywood plants.....	11	11	1,715	4,327	1,618	3,666	3,560	6,257	12,829	431	802	2,842
244	Wooden containers.....	35	27	3,488	7,222	3,342	6,563	6,390	12,107	(2)	232	3,263	8,388
2444	Wooden boxes.....	28	23	2,884	6,215	2,765	5,499	5,506	10,749	20,834	188	2,852	7,826
249	Miscellaneous wood products..	59	20	1,729	4,489	1,528	2,876	3,371	8,023	(2)	527	1,398	5,168
2491	Wood preserving.....	20	9	806	2,304	700	1,426	1,745	4,852	14,349	398	841	3,790
2493	Mirror and picture frames.....	10	4	300	809	250	478	461	1,111	1,933	35	(D)	(D)
2499	Wood products, n.e.c.....	29	7	622	1,376	577	971	1,164	2,059	5,766	93	462	(D)
25	Furniture and fixtures.....	185	54	6,954	18,371	6,114	12,202	14,374	33,079	(2)	971	5,687	22,757
251	Household furniture.....	130	43	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2511	Wood furniture, not upholstered	64	23	2,106	4,384	1,934	3,836	3,609	6,122	12,403	254	2,299	7,554
2512	Upholstered household furniture	31	13	1,336	3,803	1,152	2,369	2,857	5,545	11,580	124	842	2,582
2515	Mattresses and bedsprings.....	24	4	1,958	6,202	1,691	3,386	4,852	14,005	25,647	362	1,535	(D)
253	Public and professional fur- niture.....	6	3	175	462	149	347	360	785	(2)	41	...	...
2541	Partitions and fixtures.....	14	4	204	660	177	333	549	875	1,612	53	207	755
256	Screens, shades, and blinds..	31	2	271	649	210	376	431	1,524	(2)	46	(D)	(D)
2563	Venetian blinds.....	23	2	218	481	167	292	339	935	2,240	25	367	1,203
26	Pulp, paper and products...	68	53	13,803	55,265	11,269	23,803	40,360	155,088	(2)	73,377	7,319	54,207
261	Pulp, paper and board.....	21	19	6,597	29,548	5,275	11,345	22,034	107,529	(2)	67,723	2,197	31,398
2612	Paper and paper board mills....	9	8	2,422	10,283	1,932	4,021	7,340	42,923	137,179	(D)	(NA)	(NA)
2661	Paper bags.....	9	6	2,861	9,838	2,519	4,936	7,904	15,632	60,118	2,335	(D)	(D)
267	Paperboard containers.....	22	16	2,610	9,437	2,067	4,540	6,223	15,797	(2)	2,224	1,279	5,945
269	Pulp, paper and products, n.e.c.....	10	7	1,234	4,522	1,004	2,171	2,960	12,333	24,427	899	(D)	(D)
2699	Paper and board products, n.e.c.	10	7	1,234	4,522	1,004	2,171	2,960	12,333	24,427	899	817	(D)
27	Printing and publishing....	436	71	7,964	32,529	5,278	10,355	20,319	56,213	(2)	2,216	6,230	32,561
2711	Newspapers.....	162	22	3,661	14,328	2,156	4,279	8,858	27,167	41,549	941	3,287	17,112
2721	Periodicals.....	24	3	264	1,688	37	62	134	3,149	4,735	19	192	2,037
273	Books.....	13	8	640	2,764	481	935	1,775	4,363	(2)	97	(D)	(D)
2732	Book printing.....	7	6	557	2,389	481	935	1,775	3,494	4,757	74	(D)	(D)
2751	Commercial printing.....	169	22	2,354	9,224	1,809	3,564	6,453	14,692	25,353	788	2,017	9,588
2761	Lithographing.....	32	8	568	2,582	440	861	1,693	4,070	6,703	235	258	1,138
279	Printing trade services.....	24	6	336	1,495	254	467	1,157	2,005	(2)	114	338	2,007
2791	Typesetting.....	9	2	100	499	88	171	419	628	710	(D)	79	(D)
2793	Photoengraving.....	11	2	154	698	104	177	530	1,026	1,257	60	153	1,104
28	Chemicals and products.....	279	124	10,084	31,494	7,577	15,266	19,397	79,500	(2)	5,912	11,119	77,043
281	Inorganic chemicals.....	14	6	662	1,038	470	574	628	3,862	10,073	369	(D)	(D)
2819	Inorganic chemicals, n.e.c....	14	6	662	1,038	470	574	628	3,862	10,073	369	142	(D)
283	Drugs and medicines.....	18	4	259	901	174	309	424	4,287	(2)	600	(D)	(D)
284	Soap and related products....	23	8	609	2,634	326	638	922	5,692	(2)	291	541	5,193
2841	Soap and glycerin.....	6	4	264	1,167	90	181	224	1,790	3,492	116	266	(D)
285	Paints and allied products...	24	11	730	2,649	443	887	1,176	7,179	(2)	146	427	2,753
286	Gum and wood chemicals.....	20	6	1,301	4,877	1,058	2,199	3,587	19,089	(2)	1,522	1,251	17,579
287	Fertilizers.....	88	44	2,772	7,399	2,261	4,762	5,196	11,180	(2)	1,268	3,475	16,352
2871	Fertilizers.....	28	25	1,499	4,517	1,166	2,577	3,014	7,015	30,462	730	2,288	11,997
2872	Fertilizers, mixing only.....	60	19	1,272	2,882	1,095	2,185	2,181	4,165	23,874	537	1,187	4,355
288	Vegetable and animal oils....	40	30	1,721	4,443	1,434	3,170	3,093	7,907	(2)	906	2,181	11,545
2881	Cottonseed oil mills.....	27	21	1,295	3,219	1,084	2,368	2,289	4,944	33,907	834	1,123	6,713
2884	Vegetable oil mills, n.e.c....	5	4	232	522	201	432	429	1,298	9,750	30	978	4,382
2886	Grease and tallow.....	8	5	193	701	148	369	374	1,665	4,652	42	80	(D)
289	Chemical products, n.e.c....	50	13	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2896	Compressed and liquefied gases.	11	2	170	655	80	172	292	1,259	1,681	284	127	963
2897	Insecticides and fungicides....	7	3	212	602	164	346	379	2,661	8,699	86	...	...
2899	Chemical products, n.e.c....	16	5	391	1,690	293	506	822	7,984	17,460	291	288	3,732
29	Petroleum and coal products	14	5	517	1,976	417	766	1,332	5,690	(2)	177	489	7,259
295	Paving and roofing materials.	8	3	317	1,104	281	504	797	3,341	(2)	116	(D)	(D)
30	Rubber products.....	17	7	470	1,190	403	779	907	5,134	(2)	129	(D)	(D)
31	Leather and leather goods...	25	15	2,463	6,171	2,288	4,467	5,116	11,406	(2)	69	2,413	7,581
314	Footwear, except rubber.....	10	8	1,723	3,875	1,618	3,159	3,390	8,429	(2)	49	1,633	4,871
319	Miscellaneous leather goods..	8	3	355	1,026	331	642	812	1,216	(2)	(D)	441	1,123

See footnotes at end of table.



Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954										1947	
		Establishments, number		All employees		Production workers			Value added by manufacture	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
3192	Leather and leather goods—Con.												
32	Saddlery, harness and whips.	5	3	333	967	313	611	779	1,096	2,890	(D)	431	(D)
325	Stone, clay, and glass products.....	241	64	7,175	20,875	6,174	12,757	15,534	42,244	(2)	6,513	6,954	26,651
325	Structural clay products.....	17	14	2,468	7,434	2,236	4,902	5,521	13,244	(2)	927	2,221	7,589
3251	Brick and hollow tile.....	11	9	1,505	4,122	1,304	2,844	2,967	6,615	8,734	688	1,156	3,544
327	Concrete and plaster products	129	22	1,839	5,205	1,457	3,079	3,586	13,020	(2)	1,776	1,556	5,974
3281	Cut-stone and stone products.	68	19	1,968	5,526	1,690	3,178	4,191	9,907	13,450	514	1,491	6,278
329	Nonmetallic mineral products, n.e.c.....	12	4	252	635	224	424	529	1,438	(2)	95	(D)	(D)
33	Primary metal industries....	39	14	2,657	10,887	2,187	4,484	8,338	14,582	(2)	430	2,754	7,769
332	Iron and steel foundries.....	20	6	378	969	351	692	867	1,347	(2)	82	785	1,931
3321	Gray-iron foundries.....	16	4	232	556	218	391	524	843	1,345	14	587	(D)
3361	Nonferrous foundries.....	12	2	129	419	112	216	326	744	1,572	12	137	(D)
34	Fabricated metal products..	152	57	5,504	18,089	4,446	8,923	12,997	29,787	(2)	1,116	3,456	14,951
342	Cutlery, tools, and hardware.	7	1	111	143	100	118	122	168	(2)	12	(D)	(D)
343	Heating and plumbing equipment.....	10	7	437	1,313	368	657	892	1,877	(2)	132	591	1,647
344	Structural metal products....	95	35	3,460	12,079	2,687	5,604	8,619	19,258	(2)	589	1,731	8,100
3441	Structural and ornamental work.	31	9	709	2,665	497	1,029	1,509	3,778	8,999	123	665	3,086
3442	Metal doors, sash, and trim....	10	6	750	2,301	592	1,265	1,669	4,818	8,110	111	74	(D)
3443	Boiler shop products.....	13	10	1,310	4,730	1,151	2,437	4,097	7,454	12,959	217	524	2,417
3444	Sheet-metal work.....	41	10	689	2,382	446	872	1,343	3,208	7,116	137	468	2,326
346	Metal stamping and coating...	20	8	1,001	3,071	873	1,709	2,211	4,891	(2)	119	684	3,016
3463	Metal stampings.....	8	5	821	2,510	720	1,393	1,812	3,997	9,829	84	574	2,720
3471	Lighting fixtures.....	5	2	163	380	146	287	307	781	2,513	34	(D)	(D)
35	Machinery, except electrical.....	187	71	7,162	25,184	5,676	11,547	17,431	43,917	(2)	2,394	6,408	26,822
352	Tractors and farm machinery..	25	11	1,496	4,939	1,239	2,446	3,689	11,760	(2)	568	1,236	4,280
354	Metalworking machinery.....	10	1	106	543	92	218	435	689	939	65	(D)	(D)
3544	Special dies and tools.....	10	1	106	543	92	218	435	689	939	65	85	(D)
355	Special-industry machinery, n.e.c.....	63	29	2,519	9,204	1,969	4,080	6,181	14,173	(2)	546	2,164	10,749
3551	Food-products machinery.....	12	7	540	2,066	405	778	1,339	2,512	4,365	112	248	(D)
3552	Textile machinery.....	31	13	885	3,111	723	1,621	2,223	4,805	7,929	178	747	3,943
3559	Special-industry mach., n.e.c..	13	9	1,052	3,912	811	1,623	2,534	6,627	10,789	245	1,116	5,380
356	General industrial machinery.	28	14	1,250	4,499	940	1,955	2,924	6,845	(2)	297	926	3,813
3561	Pumps and compressors.....	5	3	130	438	94	181	234	1,112	3,302	36	(D)	(D)
3565	Industrial trucks and tractors.	8	3	227	591	184	356	449	1,159	1,929	110	200	(D)
358	Service and household machines.....	7	3	613	1,997	469	951	1,147	3,504	(2)	518	(D)	(D)
359	Miscellaneous machinery parts	49	10	1,036	3,426	860	1,712	2,694	6,015	(2)	288	(D)	(D)
3599	Machine shops.....	42	8	627	1,942	518	999	1,468	3,090	4,958	163	25	(D)
36	Electrical machinery.....	31	15	2,415	9,326	1,914	3,872	6,566	17,806	(2)	5,783	1,455	8,111
361	Electrical industrial apparatus.....	10	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3616	Electrical control apparatus...	5	3	859	3,298	618	1,217	1,974	6,133	12,567	(D)	863	3,967
366	Communication equipment.....	8	3	151	516	124	214	318	1,007	(2)	62	(D)	(D)
369	Electrical products, n.e.c....	11	6	525	2,114	430	877	1,613	4,662	(2)	495	426	3,531
37	Transportation equipment...	45	15	22,725	110,642	17,136	35,941	74,519	207,277	(2)	6,948	3,733	(D)
371	Motor vehicles and equipment.	28	12	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3713	Truck and bus bodies.....	9	3	459	1,493	403	802	1,171	2,138	4,650	96	388	1,536
373	Ships and boats.....	15	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3732	Boat building and repairing....	14	1	201	548	185	345	412	698	1,360	39	52	(D)
39	Miscellaneous manufactures <sup>5</sup>	116	27	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2,568	8,282
394	Toys and sporting goods.....	20	6	704	1,451	629	1,224	1,175	2,586	(2)	89	(D)	(D)
3942	Dolls.....	6	4	552	1,034	503	983	908	1,833	3,178	(D)	325	(D)
395	Office supplies.....	8	3	1,126	3,617	908	1,960	2,096	8,917	(2)	(D)	(D)	(D)
398	Miscellaneous manufactures <sup>5</sup> ..	66	11	1,264	3,421	1,099	2,148	2,645	6,100	(2)	228	685	2,211
399													
3988	Morticians' goods.....	16	5	747	1,941	673	1,355	1,557	3,241	6,170	84	309	(D)
3993	Signs and advertising displays.	29	...	191	658	147	283	480	1,208	1,865	50	189	863

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industries (4-digit) and industry groups (3-digit) are not shown. Industries and industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "all industries" line.

Footnotes continued on next page



Footnotes for Table 4.--Continued.

<sup>2</sup>The total value of shipments figures for industry groups and a few individual industries have not been published due to the extensive and unmeasurable duplication arising from shipments from one establishment to another in the same industry classification. (See Introduction.)

<sup>3</sup>The 1954 and 1947 "all industries" totals are not strictly comparable because of differences in scope between the two years in Major Groups 20 and 24 (see footnote 4).

<sup>4</sup>Comparable data for Major Groups 20 and 24 are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude establishments in S.I.C. Industry 2411, Logging Camps and Contractors, which are included in the scope of the 1954 Census; the 1947 Census also excludes plants processing and distributing fluid milk which in 1954 were classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
20	Food and kindred products except subgroup 202, Dairy products.....	31,000	242,000	26,000	131,000
24	Lumber and wood products except Industry 2411, Logging camps and contractors.....	28,375	89,199	33,979	88,466

<sup>5</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)

Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947  
(For explanation of column captions see Introduction)

Code	Industry group	Establish- ments, number	1954							1947	
			All employees		Production workers			Value added by manufacture	Capital expendi- tures, new	All employees, number	Value added by manufacture
			Number	Payroll (\$1,000)	Number	Man-hours ((1,000)	Wages (\$1,000)				
ATLANTA STANDARD METROPOLITAN AREA (Consists of Cobb, DeKalb, and Fulton Counties, Georgia)											
	All industries, total <sup>1</sup> ...	1,088	78,500	287,673	61,083	121,790	192,992	552,009	24,684	<sup>2</sup> 49,030	<sup>2</sup> 237,448
20	Food and kindred products...	169	11,145	38,061	7,158	15,106	21,115	101,917	4,917	( <sup>3</sup> )	( <sup>3</sup> )
201	Meat products.....	16	1,789	7,140	1,246	2,595	4,360	11,217	697	1,721	6,369
202	Dairy products.....	35	1,739	6,051	806	1,833	2,674	9,365	1,283	( <sup>3</sup> )	( <sup>3</sup> )
203	Canned and frozen foods.....	8	260	878	175	357	532	2,194	67	(D)	(D)
204	Grain mill products.....	15	451	1,447	300	660	762	1,864	121	385	2,565
205	Bakery products.....	22	3,274	11,204	2,423	5,060	7,417	37,123	1,903	2,997	18,583
207	Candy and related products....	12	477	1,345	384	762	812	2,576	22	(D)	(D)
208	Beverages.....	15	941	2,755	347	754	789	6,266	354	830	6,592
209	Miscellaneous foods.....	46	2,212	7,239	1,474	3,082	3,766	31,309	467	2,131	19,475
22	Textile mill products.....	27	8,278	20,646	7,558	14,052	17,317	27,530	2,475	8,391	27,402
223	Broad-woven fabrics.....	8	5,345	13,380	4,876	8,844	11,096	16,886	1,512	4,357	15,984
225	Knitting mill products.....	7	948	2,271	847	1,664	1,890	3,773	273	1,061	3,475
23	Apparel and related products	90	8,044	18,609	7,397	13,194	15,669	31,681	959	4,886	17,191
232	Men's & boys' furnishings.....	21	4,343	9,082	3,972	6,674	7,608	17,636	739	2,416	7,671
233	Women's & misses' outerwear....	22	807	1,711	740	1,281	1,393	2,844	27	(D)	(D)
234	Women's under garments.....	7	1,107	3,797	1,063	2,241	3,429	5,872	70	(D)	(D)
236	Children's outerwear.....	6	367	857	325	703	678	1,420	30	(D)	(D)
239	Fabricated textiles, nec.....	25	795	1,943	727	1,354	1,524	2,183	71	854	3,596
24	Lumber and wood products....	103	2,301	5,967	1,983	3,907	4,133	8,565	487	1,783	6,167
242	Lumber and basic products.....	61	1,028	2,417	891	1,774	1,763	3,158	168	718	2,554
243	Millwork and related products..	15	516	1,500	426	875	965	1,749	73	601	1,852
249	Miscellaneous wood products....	20	659	1,899	571	1,114	1,258	3,488	239	(D)	(D)
25	Furniture and fixtures.....	66	3,636	10,485	3,173	6,271	8,204	21,037	456	3,090	15,584
251	Household furniture.....	41	3,170	9,091	2,791	5,496	7,222	18,714	357	2,562	13,799
256	Screens, shades, and blinds....	13	180	454	142	256	294	851	38	311	958
26	Pulp, paper and products....	26	3,133	11,826	2,466	5,417	7,429	21,858	1,643	1,964	10,714
267	Paperboard containers.....	7	1,574	5,921	1,198	2,786	3,724	9,995	420	1,171	5,657
269	Pulp, paper & products, nec....	6	663	2,679	517	1,103	1,451	5,743	739	(D)	(D)
27	Printing and publishing.....	180	4,880	21,780	3,400	6,477	13,742	36,645	1,366	3,906	21,783
272	Periodicals.....	18	220	1,580	37	62	134	2,980	5	169	1,999
273	Books.....	10	395	1,875	302	581	1,139	2,896	80	(D)	(D)
275	Commercial printing.....	83	1,752	7,368	1,360	2,653	5,105	11,562	574	1,577	7,910
276	Lithographing.....	22	464	2,202	356	681	1,399	3,497	213	(D)	(D)
279	Printing trade services.....	19	295	1,318	224	409	1,011	1,707	111	309	1,796
28	Chemicals and products.....	94	2,670	8,666	1,644	2,988	3,852	23,828	1,459	2,042	14,010
281	Inorganic chemicals.....	8	512	397	349	326	299	2,415	325	(D)	(D)
283	Drugs and medicines.....	10	109	446	56	97	138	2,583	72	(D)	(D)
284	Soap and related products.....	15	430	2,041	187	366	510	2,851	151	(D)	(D)
285	Paints and allied products.....	19	557	2,032	327	687	925	5,550	94	245	1,641
287	Fertilizers.....	8	340	1,072	251	549	718	1,528	219	708	3,544
288	Vegetable and animal oils.....	5	202	637	140	328	337	924	211	275	1,761
289	Chemical products, nec.....	29	519	2,039	331	634	923	7,975	387	248	2,103
29	Petroleum and coal products.	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...	...
30	Rubber products.....	5	109	387	79	157	205	2,446	48	(D)	(D)
309	Rubber industries, nec.....	5	109	387	79	157	205	2,446	48	(D)	(D)
31	Leather and leather goods...	9	390	1,113	339	651	814	2,542	16	576	2,148
32	Stone, clay & glass products	50	1,098	3,281	895	1,772	2,155	5,917	358	700	2,736
326	Pottery & related products....	5	106	388	93	196	306	530	1	(D)	(D)
327	Concrete & plaster products....	27	390	1,232	304	680	746	2,355	125	317	1,151
328	Cut-stone and stone products...	9	268	764	231	357	492	1,154	50	192	957
33	Primary metal industries....	13	2,032	8,970	1,673	3,367	6,926	11,681	195	2,327	6,826
336	Nonferrous foundries.....	7	107	343	92	175	257	552	11	(D)	(D)
34	Fabricated metal products...	71	2,229	7,835	1,649	3,298	4,693	11,350	568	1,803	8,414
343	Heating & plumbing equipment...	5	275	852	229	427	541	1,349	128	(D)	(D)
344	Structural metal products.....	43	1,433	5,440	980	2,021	3,087	7,339	351	1,178	6,108
347	Lighting fixtures.....	5	163	380	146	287	307	781	34	(D)	(D)
35	Machinery except electrical.	79	3,421	12,650	2,631	5,266	8,108	20,536	723	2,691	11,390
352	Tractors and farm machinery...	5	233	769	185	345	459	1,284	18	(D)	(D)
355	Special-industry mach., nec....	25	1,125	4,564	860	1,685	2,827	6,318	205	894	4,840
356	General industrial machinery...	12	577	2,202	382	770	1,192	3,893	107	323	1,623
359	Miscellaneous mach. parts	23	820	2,708	674	1,359	2,108	4,907	218	(D)	(D)

See footnotes at end of table.

## MANUFACTURES—AREA STATISTICS

Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947  
(For explanation of column captions see Introduction)

Code	Industry group	Establishments, number	1954							1947	
			All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours ((1,000)	Wages (\$1,000)				
36	Electrical machinery.....	19	1,200	4,649	952	1,863	3,273	9,607	1,609	989	6,129
361	Elec. industrial apparatus.....	6	596	2,289	453	923	1,521	4,642	1,112	515	2,822
369	Electrical products, nec.....	6	472	1,927	390	791	1,481	4,195	484	(D)	(D)
37	Transportation equipment....	18	21,132	104,486	15,710	33,014	69,718	172,060	6,718	2,302	(D)
38	Instruments and related products.....	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	86	364
39	Miscellaneous manufactures <sup>4</sup> .	59	2,685	7,836	2,282	4,797	5,369	16,052	655	(D)	(D)
394	Toys and sporting goods.....	8	475	1,109	439	972	937	1,941	86	(D)	(D)
395	Office supplies.....	7	1,120	3,604	904	1,952	2,087	8,898	407	(D)	(D)
397	Plastics products.....	7	170	516	143	284	361	695	62	(D)	(D)
398	Miscellaneous manufactures.....	31	850	2,385	740	1,461	1,868	4,156	97	(D)	(D)
CHATTANOOGA STANDARD METROPOLITAN AREA ("All manufacturing" totals for the Chattanooga Standard Metropolitan Area (which includes Walker County in Georgia) appear in Table 3. Industry group statistics for this standard metropolitan area are shown in the 1954 Census of Manufactures report for the State of Tennessee.)											

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industry groups (3-digit) are not shown. Industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "All industries" line.

<sup>2</sup>The 1954 and 1947 "All industries" totals are not strictly comparable because of differences in scope between the two years in Major group 20 (see footnote 3).

<sup>3</sup>Comparable data for Major group 20 are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude plants processing and distributing fluid milk which in 1954 were classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
20	Food and kindred products except Sub-group 202, Dairy Products	9,358	92,147	8,825	59,300

<sup>4</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)



Table 6.—GENERAL STATISTICS FOR PRINCIPAL INDUSTRIAL COUNTIES, BY MAJOR INDUSTRY GROUP: 1954 AND 1947

(Principal industrial counties include all counties with 20,000 or more manufacturing employees. For explanation of column captions see Introduction)

Code	Major industry group	1954								1947	
		Establish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendit- ures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
		FULTON COUNTY									
	All industries <sup>1</sup> .....	865	53,096	178,497	41,706	82,057	120,884	358,472	16,931	<sup>2</sup> 42,626	<sup>2</sup> 217,402
20	Food and kindred products.....	136	9,972	33,845	6,309	13,341	18,299	94,412	3,820	8,652	58,423
22	Textile mill products.....	15	5,609	13,820	5,101	9,193	11,393	18,226	1,627	5,677	19,977
23	Apparel and related products..	85	7,462	17,412	6,864	12,082	14,668	29,831	898	4,652	16,644
24	Lumber and wood products.....	74	1,967	5,306	1,688	3,315	3,584	7,733	450	1,269	4,995
25	Furniture and fixtures.....	42	3,125	9,271	2,727	5,369	7,256	19,107	403	2,389	13,646
26	Pulp, paper and products.....	23	2,818	10,739	2,226	4,940	6,760	19,724	1,507	1,856	10,373
27	Printing and publishing.....	158	4,692	21,080	3,280	6,281	13,431	35,524	1,253	3,746	21,135
28	Chemicals and products.....	80	2,422	7,700	1,454	2,592	3,290	18,958	1,345	1,927	12,703
32	Stone, clay & glass products..	31	776	2,432	611	1,320	1,565	4,557	277	500	1,903
34	Fabricated metal products....	52	1,767	6,500	1,255	2,563	3,873	9,186	413	1,665	7,907
35	Machinery, exc. electrical....	58	2,917	10,828	2,218	4,425	6,857	17,935	544	2,573	11,036
39	Miscellaneous manufactures <sup>3</sup> ...	50	2,521	7,431	2,138	4,497	5,030	15,344	637	2,062	(D)

D Withheld to avoid disclosing data for individual companies.

<sup>1</sup>In order to avoid disclosing data for individual companies, the statistics for some industry groups are not shown. Industry groups reporting less than 100 employees are also omitted. They are included, however, in the "All industries" line.<sup>2</sup>The 1954 and 1947 "All industries" totals are not strictly comparable because of differences in coverage of loggers and fluid milk distributors. See discussion in Introduction and footnote to Table 4 for comparable figures at the State level.<sup>3</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)



## 110-15

(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Carroll:																					
1 to 19 employees.....	46	6	...	8	...	18	6	...	4	1	...	...	1	2	...	...	...	...	...	...	...
20 to 99 employees.....	18	2	...	10	2	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
100 employees and over.....	9	...	...	5	2	...	...	...	...	...	...	...	1	...	1	...	...	...	...	...	...
Catoosa:																					
1 to 19 employees.....	12	4	...	...	...	3	...	...	2	...	...	...	...	...	...	1	2	...	...	...	...
20 to 99 employees.....	3	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
100 employees and over.....	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Charlton:																					
1 to 19 employees.....	30	...	...	...	...	29	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Chatham:																					
1 to 19 employees.....	115	17	...	...	3	27	6	2	17	9	4	...	...	7	...	10	2	1	3	1	6
20 to 99 employees.....	38	11	...	...	1	8	...	2	1	11	...	...	...	2	...	2	...	...	...	...	...
100 employees and over.....	26	5	...	...	...	5	...	6	1	2	3	...	...	1	...	1	...	...	2	...	...
Chattooga:																					
1 to 19 employees.....	12	1	...	1	...	8	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	3	...	...	1	...	1	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...
100 employees and over.....	5	...	...	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Cherokee:																					
1 to 19 employees.....	37	2	...	...	...	28	1	...	2	...	...	...	...	2	...	...	2	...	...	...	...
20 to 99 employees.....	5	1	...	1	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	3	2	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Clarke:																					
1 to 19 employees.....	41	11	...	5	3	4	2	...	3	2	...	...	...	2	1	1	5	...	...	...	2
20 to 99 employees.....	21	4	...	2	3	4	...	1	1	1	...	1	...	...	...	1	2	...	...	...	1
100 employees and over.....	9	3	...	3	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Clay:																					
1 to 19 employees.....	6	...	...	...	...	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
Clayton:																					
1 to 19 employees.....	24	4	...	1	1	3	5	...	1	...	...	...	...	2	...	4	...	...	2	...	1
20 to 99 employees.....	3	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1	...	...	...	...	1
Clinch:																					
1 to 19 employees.....	29	2	...	...	...	25	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	6	...	...	...	...	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Cobb:																					
1 to 19 employees.....	49	9	...	1	...	9	5	...	5	1	1	...	...	6	...	4	6	...	...	...	2
20 to 99 employees.....	18	2	...	2	...	2	3	1	1	1	...	1	...	1	...	1	1	...	...	...	2
100 employees and over.....	10	...	...	5	3	...	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...
Coffee:																					
1 to 19 employees.....	35	3	...	...	...	25	1	...	3	2	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	11	2	1	1	2	3	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Colquitt:																					
1 to 19 employees.....	39	12	...	...	...	17	...	...	2	4	...	...	...	...	3	1	...	...	...	...	...
20 to 99 employees.....	8	1	...	...	...	2	1	...	1	3	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	4	1	...	1	2	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
Columbia:																					
1 to 19 employees.....	19	2	...	...	1	12	2	...	1	...	...	...	...	...	...	1	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Cook:																					
1 to 19 employees.....	16	2	...	...	...	9	1	...	1	1	...	...	...	...	...	1	1	...	...	...	...
20 to 99 employees.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...
Coweta:																					
1 to 19 employees.....	31	4	...	...	2	18	...	...	3	1	...	...	1	1	...	1	...	...	...	...	...
20 to 99 employees.....	8	...	...	3	...	3	...	...	...	...	...	...	...	...	...	1	...	...	...	...	1
100 employees and over.....	9	1	...	5	1	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...
Crawford:																					
1 to 19 employees.....	9	...	...	...	...	9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	4	...	...	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Crisp:																					
1 to 19 employees.....	21	6	...	...	...	6	...	...	4	1	...	...	...	1	...	1	...	1	...	...	1
20 to 99 employees.....	9	1	...	1	1	2	...	...	...	3	...	...	...	...	1	...	...	...	...	...	...
100 employees and over.....	3	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
Dade:																					
1 to 19 employees.....	11	...	...	...	...	9	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Dawson:																					
1 to 19 employees.....	9	...	...	...	...	9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...
Decatur:																					
1 to 19 employees.....	12	3	...	...	...	7	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	7	4	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	5	1	...	...	2	1	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
DeKalb:																					
1 to 19 employees.....	109	13	...	1	2	16	13	...	15	10	1	...	1	10	1	8	10	1	2	1	4
20 to 99 employees.....	26	7	...	1	...	2	2	1	1	2	...	...	...	1	...	5	2	...	1	...	1
100 employees and over.....	11	2	...	2	...	...	...	1	...	...	...	...	...	1	1	...	1	2	...	1	...
Dodge:																					
1 to 19 employees.....	20	4	...	...	...	16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	2	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...





110-17

(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establishments, total	Number of establishments by minor industry group (see headnote for titles)																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	
Hall:																						
1 to 19 employees.....	50	14	...	1	...	23	...	...	3	3	...	...	...	4	1	...	...	...	...	...	1	
20 to 99 employees.....	15	5	...	1	...	1	3	...	2	...	...	...	1	...	...	...	2	...	...	...	...	
100 employees and over.....	11	6	...	4	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	
Hancock:																						
1 to 19 employees.....	21	3	...	...	...	15	1	...	1	...	...	...	...	1	...	...	...	...	...	...	...	
20 to 99 employees.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
100 employees and over.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Haralson:																						
1 to 19 employees.....	10	...	...	...	...	6	2	...	2	...	...	...	...	...	...	...	...	...	...	...	...	
20 to 99 employees.....	3	1	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
100 employees and over.....	5	...	...	1	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Harris:																						
1 to 19 employees.....	26	2	...	1	...	21	...	...	...	...	...	...	...	1	...	...	...	...	...	...	1	
20 to 99 employees.....	3	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	3	...	...	...	
100 employees and over.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Hart:																						
1 to 19 employees.....	10	4	...	...	...	4	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	
20 to 99 employees.....	2	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	
100 employees and over.....	4	...	...	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Heard:																						
1 to 19 employees.....	13	...	...	...	...	13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Henry:																						
1 to 19 employees.....	15	1	...	...	...	7	4	...	1	...	...	...	...	...	...	...	2	...	...	...	...	
20 to 99 employees.....	6	...	...	2	2	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	
Houston:																						
1 to 19 employees.....	12	1	...	...	...	7	...	...	3	...	...	...	...	...	1	...	...	...	...	...	...	
20 to 99 employees.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
100 employees and over.....	2	...	...	...	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	
Irwin:																						
1 to 19 employees.....	11	2	...	...	1	7	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	
20 to 99 employees.....	2	...	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	
Jackson:																						
1 to 19 employees.....	10	2	...	1	...	5	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	
20 to 99 employees.....	4	2	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	
100 employees and over.....	4	...	...	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Jasper:																						
1 to 19 employees.....	17	3	...	...	...	13	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	
20 to 99 employees.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	
100 employees and over.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Jeff Davis:																						
1 to 19 employees.....	13	2	...	...	...	9	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...	
20 to 99 employees.....	2	...	...	...	1	1	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	
100 employees and over.....	3	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Jefferson:																						
1 to 19 employees.....	37	5	...	...	...	28	...	...	3	...	...	...	...	...	...	1	...	...	...	...	...	
20 to 99 employees.....	8	...	...	...	1	3	1	...	...	2	...	...	...	...	...	...	1	...	...	...	...	
100 employees and over.....	3	...	...	...	2	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Jenkins:																						
1 to 19 employees.....	8	1	...	...	...	6	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
100 employees and over.....	2	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Johnson:																						
1 to 19 employees.....	5	...	...	...	...	4	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	
20 to 99 employees.....	2	...	...	...	...	2	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	
100 employees and over.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Jones:																						
1 to 19 employees.....	14	1	...	...	...	12	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	
20 to 99 employees.....	2	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
100 employees and over.....	2	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Lamar:																						
1 to 19 employees.....	13	1	...	...	...	8	3	...	1	...	...	...	...	...	...	...	...	...	...	...	...	
20 to 99 employees.....	2	...	...	...	...	2	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	
100 employees and over.....	3	...	...	2	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Lanier:																						
1 to 19 employees.....	11	1	...	...	...	10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Laurens:																						
1 to 19 employees.....	33	9	...	...	...	15	1	...	3	1	...	...	...	2	...	2	...	...	...	...	...	
20 to 99 employees.....	5	1	...	...	...	3	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	
100 employees and over.....	3	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Lee:																						
1 to 19 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Liberty:																						
1 to 19 employees.....	17	2	...	...	...	15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
20 to 99 employees.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Lincoln:																						
1 to 19 employees.....	26	...	...	...	...	25	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	
20 to 99 employees.....	3	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
100 employees and over.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Long:																						
1 to 19 employees.....	6	...	...	...	...	5	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	
100 employees and over.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	





## 110-19

(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Polk:																					
1 to 19 employees.....	23	7	...	...	...	7	...	1	2	2	...	...	...	1	1	1	...	...	...	...	1
20 to 99 employees.....	7	...	...	2	...	1	...	2	...	...	...	...	...	2	...	...	...	...	...	...	...
100 employees and over.....	8	...	...	5	...	...	...	...	...	1	...	...	...	1	...	...	1	...	...	...	...
Pulaski:																					
1 to 19 employees.....	10	3	...	...	...	3	...	...	2	...	...	...	...	1	...	...	1	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Putnam:																					
1 to 19 employees.....	22	1	...	...	...	19	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	2	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...
Quitman:																					
1 to 19 employees.....	10	...	...	...	...	10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Rabun:																					
1 to 19 employees.....	11	...	...	...	...	10	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	3	...	...	...	...	2	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...
100 employees.....	2	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Randolph:																					
1 to 19 employees.....	17	1	...	...	...	13	1	...	1	...	...	...	...	...	...	...	1	...	...	...	...
20 to 99 employees.....	3	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	3	...	...	...	...
100 employees and over.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Richmond:																					
1 to 19 employees.....	72	11	...	1	1	16	4	...	15	5	1	...	...	3	2	4	4	...	1	...	4
20 to 99 employees.....	38	12	...	3	2	7	1	...	1	7	...	...	...	1	...	1	3	...	...	...	...
100 employees and over.....	16	4	...	5	...	1	...	1	1	1	...	...	...	3	...	...	...	...	...	...	...
Rockdale:																					
1 to 19 employees.....	5	2	...	...	...	2	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Schley:																					
1 to 19 employees.....	8	1	...	...	...	5	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1
Screven:																					
1 to 19 employees.....	32	3	...	...	...	26	...	...	2	1	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	8	...	...	...	...	8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Seminole:																					
1 to 19 employees.....	9	3	...	...	...	4	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	3	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Spaulding:																					
1 to 19 employees.....	26	7	...	...	...	5	2	1	3	3	...	...	...	2	...	...	1	...	...	...	2
20 to 99 employees.....	11	5	...	1	2	1	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	11	1	...	9	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Stephens:																					
1 to 19 employees.....	21	4	...	...	1	7	4	...	1	2	...	...	...	1	...	1	...	...	...	...	...
20 to 99 employees.....	8	1	...	...	...	...	4	...	...	1	...	...	...	...	1	1	...	...	...	...	...
100 employees and over.....	9	...	...	2	1	2	2	...	...	...	...	...	...	...	...	...	1	...	...	...	1
Stewart:																					
1 to 19 employees.....	11	1	...	...	...	9	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	5	...	...	...	...	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sumter:																					
1 to 19 employees.....	22	4	...	...	...	9	...	...	4	1	...	...	...	2	1	...	...	...	1	...	...
20 to 99 employees.....	8	2	...	...	1	4	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	3	...	...	...	1	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Talbot:																					
1 to 19 employees.....	27	1	...	...	...	23	...	...	2	...	...	...	...	...	...	...	...	...	...	...	1
20 to 99 employees.....	4	...	...	1	...	2	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Taliaferro:																					
1 to 19 employees.....	10	...	...	...	...	10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	3	...	...	...	1	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tattnall:																					
1 to 19 employees.....	13	2	...	...	...	9	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Taylor:																					
1 to 19 employees.....	14	1	...	...	...	11	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Telfair:																					
1 to 19 employees.....	24	1	...	...	...	22	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	10	1	...	...	...	7	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Terrell:																					
1 to 19 employees.....	10	4	...	...	...	4	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	3	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...
Thomas:																					
1 to 19 employees.....	45	13	...	...	1	15	2	...	2	2	...	1	...	3	...	1	3	...	...	...	2
20 to 99 employees.....	12	5	...	...	1	4	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	5	2	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tift:																					
1 to 19 employees.....	36	8	...	...	...	20	...	...	3	...	...	...	...	3	...	...	1	...	...	...	1
20 to 99 employees.....	6	1	...	...	...	...	...	...	1	3	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	3	1	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Toombs:																					
1 to 19 employees.....	29	6	...	...	...	17	...	...	2	...	...	...	...	2	1	...	1	...	...	...	...
20 to 99 employees.....	8	...	...	...	...	4	...	1	...	2	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	3	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...



THE BLANK PAGES TO BE FOUND IN THIS VOLUME  
RESULT FROM THE PROCESS USED WHEN PRINTING  
THE INDIVIDUAL BULLETINS. NO DATA ARE MISSING.



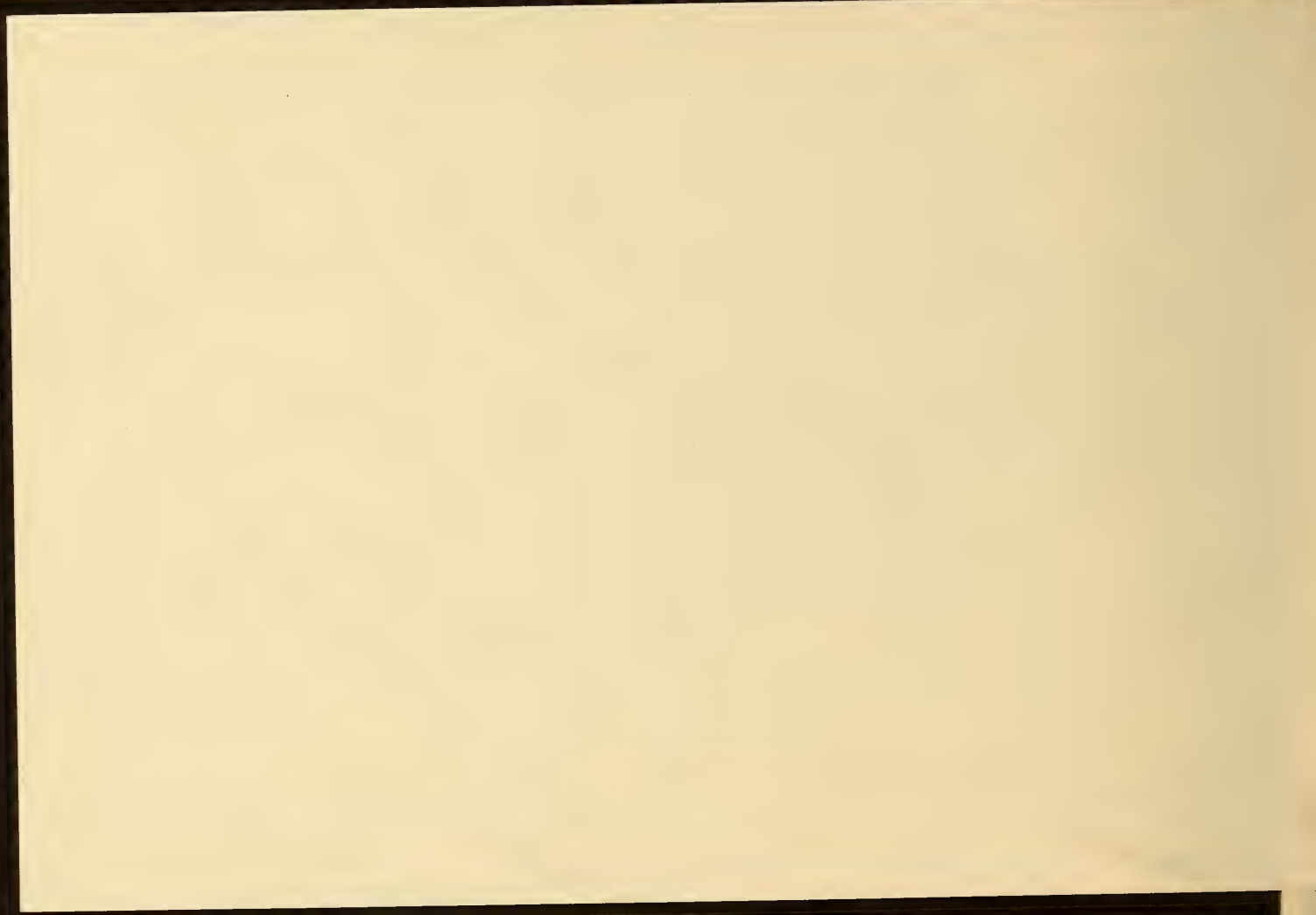




Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954—Continued  
(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establish- ments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Towns																					
1 to 19 employees	3	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Treutlen:																					
1 to 19 employees.....	6	1	...	...	...	3	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Troup:																					
1 to 19 employees.....	45	11	...	...	...	26	2	...	1	...	...	...	1	1	1	2	...	...	...	...	...
20 to 99 employees.....	12	2	...	1	...	5	...	...	2	1	...	...	...	...	1	...	...	...	...	...	...
100 employees and over.....	12	...	...	10	...	...	...	...	...	...	...	...	...	1	...	...	1	...	...	...	...
Turner:																					
1 to 19 employees.....	5	1	...	...	...	3	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	2	...	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
Twiggs:																					
1 to 19 employees.....	8	...	...	...	...	6	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1
20 to 99 employees.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Union:																					
1 to 19 employees.....	17	...	...	...	...	17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Upson:																					
1 to 19 employees.....	22	5	...	...	...	14	...	...	1	1	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	4	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Walker:																					
1 to 19 employees.....	28	4	...	1	...	19	...	...	2	...	...	...	...	...	...	...	...	1	...	...	1
20 to 99 employees.....	6	1	...	1	...	1	2	...	...	...	...	...	...	...	...	1	...	...	...	...	...
100 employees and over.....	11	1	...	9	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Walton:																					
1 to 19 employees.....	12	4	...	...	...	5	...	...	1	1	...	...	...	...	1	...	...	...	...	...	...
20 to 99 employees.....	5	...	...	...	2	1	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	6	1	...	3	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Ware:																					
1 to 19 employees.....	39	6	...	...	2	19	2	1	2	2	...	...	...	4	...	...	...	...	1	...	...
20 to 99 employees.....	12	4	...	...	...	3	...	1	1	...	...	...	...	1	...	...	...	...	1	...	1
100 employees and over.....	3	...	1	...	...	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
Warren:																					
1 to 19 employees.....	8	1	...	...	...	4	...	...	1	1	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Washington:																					
1 to 19 employees.....	33	4	...	...	...	27	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	3	1	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Wayne:																					
1 to 19 employees.....	29	1	...	...	...	22	1	...	2	1	...	...	...	1	...	...	1	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	4	...	...	...	1	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...
Webster:																					
1 to 19 employees.....	6	...	...	...	...	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Wheeler:																					
1 to 19 employees.....	11	...	...	...	...	9	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...
White:																					
1 to 19 employees.....	7	...	...	...	...	7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	3	...	...	2	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Whitfield:																					
1 to 19 employees.....	85	6	...	15	19	18	3	...	1	3	...	3	...	4	...	4	7	...	...	...	2
20 to 99 employees.....	48	2	...	25	14	1	1	...	...	...	...	1	1	2	...	1	...	...	...	...	...
100 employees and over.....	20	1	...	8	10	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Wilcox:																					
1 to 19 employees.....	9	2	...	...	2	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Wilkes:																					
1 to 19 employees.....	33	5	...	...	...	28	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	3	1	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Wilkinson:																					
1 to 19 employees.....	28	...	...	...	...	25	...	...	1	...	...	1	...	...	...	...	1	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Worth:																					
1 to 19 employees.....	13	2	...	...	...	9	...	...	1	...	...	...	...	...	...	...	...	...	1	...	...
20 to 99 employees.....	3	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...



# IDAHO (44 COUNTIES)



## MANUFACTURES—AREA STATISTICS

Table 1.—MANUFACTURING EMPLOYMENT AT OPERATING ESTABLISHMENTS AND CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARIES FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS

(This table includes data for all manufacturing employees including those located in central administrative offices and auxiliaries. Tables 2-7 in this report include data for operating establishments only. For explanation of column captions see Introduction)

State, standard metropolitan areas, and year <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	(Number)	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
Idaho:						
1954.....	23,895	90,742	23,722	89,507	173	1,235
1953 <sup>2</sup> .....	23,482	87,781	23,218	86,173	264	1,608
1952 <sup>2</sup> .....	20,016	83,165	19,623	81,149	<sup>3</sup> 393	<sup>2</sup> 2,016
1951 <sup>2</sup> .....	19,706	78,837	19,313	76,821	393	2,016
1950 <sup>2</sup> .....	15,832	56,860	15,815	56,784	17	76
1949 <sup>2</sup> .....	15,379	50,754	15,250	50,082	129	672
Standard Metropolitan Areas: (None in this State)						

<sup>1</sup>Employment data for administrative offices and auxiliaries on a State basis are not available for the years prior to 1949.<sup>2</sup>The employment figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period. The employment figures for administrative and auxiliary units were compiled chiefly from Bureau of Old-Age and Survivors Insurance records and are not strictly comparable with the figures for these units that were collected by the Bureau of the Census for the year 1954.<sup>3</sup>The 1951 data are shown for 1952 as auxiliary and administrative unit data were not collected in 1952.

Table 2.—GENERAL STATISTICS FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Year	Establish- ments, number	All employees		Production workers		Value added by manufacture (\$1,000)	
		Number	Payroll (\$1,000)	Number	Wages (\$1,000)		
	IDAHO						
1954 <sup>1</sup> .....	981	{ (NA) }	23,722	89,507	20,266	72,159	182,276
1953 <sup>2</sup> .....			23,218	86,173	19,558	70,238	166,904
1952 <sup>2</sup> .....			19,623	81,149	17,917	68,429	142,553
1951 <sup>2</sup> .....			19,313	76,821	18,784	66,464	147,853
1950 <sup>2</sup> .....			15,815	56,784	14,562	46,542	118,675
1949 <sup>2</sup> .....			15,250	50,082	13,901	43,216	91,702
1947.....	664		16,907	45,748	14,602	37,904	109,694
1939.....	498		11,719	14,697	9,854	11,490	29,788
1937.....	533		14,116	18,735	12,797	16,250	37,691
1935.....	455		10,811	12,789	9,635	10,738	23,668
1933.....	347	(NA)	(NA)	7,682	7,082	17,971	
1931.....	439	(NA)	(NA)	9,393	11,276	22,952	
1929.....	562	17,023	25,488	15,648	22,452	44,489	
1927.....	470	(NA)	(NA)	13,513	18,971	38,329	
1925.....	490	(NA)	(NA)	15,794	20,709	43,838	
1923.....	510	(NA)	(NA)	16,347	22,886	44,295	
1921.....	485	(NA)	(NA)	10,783	15,183	21,010	
1919.....	803	15,022	20,639	13,575	18,014	35,659	
1914.....	698	9,865	8,731	8,919	7,491	13,562	
1909.....	725	9,078	6,482	8,220	5,498	12,480	
1904.....	364	3,420	2,439	3,061	2,059	4,700	
1899.....	287	1,644	884	1,552	818	1,563	
	STANDARD METROPOLITAN AREAS (None in this State)						

NA Not available. <sup>1</sup>The 1954 figures include data for establishments engaged in the processing and distribution of fluid milk, Industry Group 202, Dairy Products. These establishments were not included in the figures for the Annual Survey years 1949-1953 or earlier Census years. In addition, the 1954 Census and Annual Survey years include data for Logging Camps and Contractors, Industry 2411, which were not included within the scope of the 1947 Census. See footnotes to Table 4 for comparable 1954 and 1947 totals. There were also a number of changes in the definition of manufacturing industries during earlier Census years that affect the comparability of the historical series. Among the more important of these were: figures for 1935 and later years exclude data for "Railroad repair shops" and "Manufactured gas" which were included in 1899-1933 figures; the minimum size of establishment included for 1954 and 1947 was one employee, for 1939-1921 manufacturing establishments reporting value of shipments of \$5,000 or more were within scope whereas for 1919 and earlier years the cut-off was \$500. (This change in procedure has not appreciably affected the comparability of the historical data except for the figures on number of establishments.)

<sup>2</sup>The employment and payroll figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments.



## MANUFACTURES—AREA STATISTICS

Table 3.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947

(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
Idaho, total.....	588,637	981	23,722	89,507	20,266	39,442	72,159	182,276	20,627	( <sup>1</sup> )	( <sup>1</sup> )
STANDARD METROPOLITAN AREAS (None in this State)											
COUNTIES											
Ada.....	70,649	116	1,976	7,303	1,444	2,786	4,782	13,608	730	1,480	7,792
Adams.....	3,347	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	155	1,058
Bannock.....	41,745	43	952	3,531	679	1,320	2,206	6,746	734	834	5,157
Bear Lake.....	6,834	12	57	164	48	95	140	286	48	43	147
Benewah.....	6,173	70	514	1,671	475	700	1,406	2,956	220	278	1,399
Bingham.....	23,271	18	167	597	127	280	402	1,380	265	283	1,509
Blaine.....	5,384	6	18	67	15	26	51	162	(D)	25	94
Boise.....	1,776	20	270	1,135	250	496	961	1,792	80	165	907
Bonner.....	14,853	53	1,210	4,522	999	1,749	3,612	8,154	740	756	4,198
Bonneville.....	30,210	34	957	3,322	740	1,628	2,311	7,313	621	836	4,283
Boundary.....	5,908	21	310	1,099	289	507	976	1,727	387	248	785
Butte.....	2,722	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Camas.....	1,079	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Canyon.....	53,597	57	2,015	6,542	1,654	3,327	4,799	15,721	1,936	1,833	13,692
Caribou.....	5,576	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	19	166
Cassia.....	14,629	12	184	631	163	345	549	1,099	62	346	2,965
Clark.....	918	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	17	(D)
Clearwater.....	8,217	62	1,354	5,266	1,269	2,353	4,865	9,600	1,025	837	4,123
Custer.....	3,318	3	5	(D)	4	(D)	(D)	(D)	(D)	(D)	(D)
Elmore.....	6,687	8	127	520	122	229	500	842	86	169	690
Franklin.....	9,867	9	185	573	159	324	470	1,494	104	194	1,356
Fremont.....	9,351	12	86	295	78	162	271	557	17	44	351
Gem.....	8,730	11	620	2,479	575	1,146	2,288	3,879	366	429	(D)
Gooding.....	11,101	7	27	63	20	32	49	120	7	18	90
Idaho.....	11,423	48	1,096	4,374	1,017	2,038	4,020	7,637	751	430	1,888
Jefferson.....	10,495	6	29	70	21	38	48	210	30	12	20
Jerome.....	12,080	11	279	844	249	529	750	1,497	309	148	975
Kootenai.....	24,947	66	1,759	6,965	1,593	2,987	6,080	12,443	1,369	885	5,526
Latah.....	20,971	39	965	4,202	894	1,868	3,823	7,198	325	825	4,675
Lemhi.....	6,278	14	72	212	65	134	178	396	19	41	201
Lewis.....	4,208	16	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Lincoln.....	4,256	3	12	(D)	11	(D)	(D)	(D)	(D)	28	(D)
Madison.....	9,156	8	130	400	97	225	292	539	34	101	379
Minidoka.....	9,785	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Nez Perce.....	22,658	39	2,924	(D)	2,610	(D)	(D)	(D)	(D)	2,105	11,138
Oneida.....	4,387	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	39	(D)
Owyhee.....	6,307	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	12	63
Payette.....	11,921	14	285	538	243	299	382	1,139	149	218	935
Power.....	3,988	4	534	(D)	395	(D)	(D)	(D)	(D)	104	(D)
Shoshone.....	22,806	37	1,472	(D)	1,292	(D)	(D)	(D)	(D)	1,101	(D)
Teton.....	3,204	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	17	(D)
Twin Falls.....	40,979	48	879	2,985	691	1,411	2,213	7,341	425	943	8,382
Valley.....	4,270	11	287	1,375	272	594	1,235	2,537	325	302	(D)
Washington.....	8,576	12	179	476	149	270	372	709	48	162	693
CITIES WITH 10,000 INHAB- ITANTS OR MORE											
Boise.....	34,393	75	1,197	4,573	849	1,651	2,905	7,918	329	808	4,463
Caldwell.....	10,487	21	514	1,637	393	801	1,105	3,267	180	(NA)	(NA)
Coeur d'Alene.....	12,198	16	149	509	102	192	315	949	152	136	561
Idaho Falls.....	19,218	27	751	2,544	558	1,203	1,637	5,695	405	470	2,510
Lewiston.....	12,985	22	294	1,226	199	461	767	2,099	143	403	(D)
Moscow.....	10,593	6	72	235	64	124	207	476	25	(NA)	(NA)
Nampa.....	16,185	19	401	1,555	300	715	1,030	4,577	173	527	3,380
Pocatello.....	26,131	30	643	2,264	453	868	1,371	4,110	406	408	2,216
Twin Falls.....	17,600	28	398	1,355	295	640	952	2,703	242	430	2,680

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>The 1947 data are not strictly comparable with the figures shown for 1954 due to differences in coverage of loggers and fluid milk distributors. See discussion in Introduction and footnotes to Table 4.

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947

(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
	All industries, total <sup>1</sup> ...	981	204	23,722	89,507	20,266	39,442	72,159	182,276	( <sup>2</sup> )	20,627	( <sup>3</sup> )	( <sup>3</sup> )
20	Food and kindred products..	232	79	6,752	21,274	5,377	10,527	15,312	49,627	( <sup>2</sup> )	5,020	( <sup>3</sup> )	( <sup>3</sup> )
201	Meat products.....	30	8	439	1,771	336	760	1,258	4,784	( <sup>2</sup> )	300	410	2,447
2011	Meat packing, plants.....	25	8	421	1,736	320	733	1,229	4 733	( <sup>2</sup> )	291	338	(D)
202	Dairy products.....	91	27	1,872	6,380	1,360	2,910	4,319	15,514	( <sup>2</sup> )	1,420	( <sup>3</sup> )	( <sup>3</sup> )
2021	Creamery butter.....	11	5	385	1,240	325	684	1,010	2,241	16,791	414	( <sup>3</sup> )	( <sup>3</sup> )
2022	Natural cheese.....	24	4	317	1,026	253	590	805	1,601	12,528	347	( <sup>3</sup> )	( <sup>3</sup> )
2023	Concentrated milk.....	4	3	255	921	214	475	747	3,463	20,886	98	( <sup>3</sup> )	( <sup>3</sup> )
2027	Fluid milk and other products..	33	10	582	2,183	302	687	1,025	5,695	15,740	499	( <sup>3</sup> )	( <sup>3</sup> )
203	Canned and frozen foods.....	13	10	1,321	3,091	1,215	2,085	2,586	5,362	( <sup>2</sup> )	1,547	1,095	3,849
2033	Canned fruits and vegetables...	6	6	385	782	348	511	626	1,592	4,457	77	422	1,826
204	Grain mill products.....	22	10	472	1,678	388	905	1,321	3,651	( <sup>2</sup> )	282	526	4,227
2041	Flour and meal.....	8	7	330	1,203	281	665	1,005	2,194	12,404	94	331	2,903
205	Bakery products.....	25	9	473	1,555	301	618	879	2,781	5,839	79	586	2,771
2051	Bread and related products.....	25	9	473	1,555	301	618	879	2,781	5,839	79	586	2,771
208	Beverages.....	26	4	323	1,148	172	260	399	1,999	( <sup>2</sup> )	112	276	1,863
209	Miscellaneous foods.....	17	5	828	2,124	712	1,181	1,585	5,216	( <sup>2</sup> )	201	(D)	(D)
23	Apparel and related products.....	12	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	29	(D)
24	Lumber and wood products...	505	89	11,590	46,752	10,642	20,365	41,109	83,049	( <sup>2</sup> )	6,726	( <sup>3</sup> )	( <sup>3</sup> )
242	Lumber and basic products....	228	68	8,675	34,870	8,001	15,611	31,118	63,611	( <sup>2</sup> )	4,751	(D)	(D)
2421	Sawmills and planing mills.....	224	67	8,616	34,657	7,944	15,523	30,911	63,190	132,863	...	7,225	41,809
244	Wooden containers.....	8	2	158	321	149	250	277	537	( <sup>2</sup> )	130	102	336
25	Furniture and fixtures.....	11	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
26	Pulp, paper and products...	2	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
27	Printing and publishing....	94	9	966	3,796	632	1,238	2,393	6,777	( <sup>2</sup> )	328	961	4,968
2711	Newspapers.....	59	8	725	2,933	459	878	1,811	5,413	6,706	255	723	4,152
2751	Commercial printing.....	21	1	170	627	123	269	411	948	1,327	55	222	(D)
28	Chemicals and products.....	12	4	859	3,886	611	1,324	2,608	12,783	( <sup>2</sup> )	4,213	149	1,609
31	Leather and leather goods..	3	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	14	54
32	Stone, clay and glass products.....	29	5	472	1,695	379	722	1,101	2,923	( <sup>2</sup> )	376	328	1,614
33	Primary metal industries...	7	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	948	10,492
34	Fabricated metal products..	21	4	409	1,340	316	580	980	1,637	( <sup>2</sup> )	100	106	404
3441	Structural and ornamental work.	8	2	287	895	214	387	634	921	3,874	41	(D)	(D)
35	Machinery, except electrical.....	24	3	222	775	164	312	538	1,408	( <sup>2</sup> )	54	312	1,194
36	Electrical machinery.....	1	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
37	Transportation equipment...	9	1	100	350	89	181	262	634	( <sup>2</sup> )	21	27	(D)
38	Instruments and related products.....	2	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
39	Miscellaneous manufactures <sup>4</sup>	17	3	271	797	235	482	551	1,167	( <sup>2</sup> )	75	213	978

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industries (4-digit) and industry groups (3-digit) are not shown. Industries and industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "all industries" line.<sup>2</sup>The total value of shipments figures for industry groups and a few individual industries have not been published due to the extensive and unmeasurable duplication arising from shipments from one establishment to another in the same industry classification. (See Introduction.)<sup>3</sup>Comparable data are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude establishments in S.I.C. Industry 2411, Logging Camps and Contractors, which are included in the scope of the 1954 Census; the 1947 Census also excludes plants processing and distributing fluid milk which in 1954 were classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	All industries except subgroups 202 and 2411, total.....	19,260	149,713	15,612	101,674
20	Food and kindred products except subgroup 202, Dairy products.....	4,880	34,113	4,725	35,633
24	Lumber and wood products except Industry 2411, Logging camps and contractors.....	9,000	66,000	7,629	43,396

<sup>4</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)



## MANUFACTURES—AREA STATISTICS

Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUPS: 1954 AND 1947  
(This State contained no standard metropolitan area with 40,000 or more manufacturing employees in 1954 or 1947)

Table 6.—GENERAL STATISTICS FOR PRINCIPAL INDUSTRIAL COUNTIES (THOSE WITH 20,000 OR MORE MANUFACTURING EMPLOYEES),  
BY MAJOR INDUSTRY GROUPS: 1954 AND 1947

(This State contained no county with 20,000 or more manufacturing employees in 1954 and 1947)

Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954

20 Food and kindred products	26 Pulp, paper and products	32 Stone, clay, and glass products	38 Instruments and related products
21 Tobacco manufactures	27 Printing and publishing	33 Primary metal industries	39 Miscellaneous manufactures (Includes Group 19, Ordnance and accessories)
22 Textile mill products	28 Chemicals and products	34 Fabricated metal products	
23 Apparel and related products	29 Petroleum and coal products	35 Machinery, except electrical	
24 Lumber and wood products	30 Rubber products	36 Electrical machinery	
25 Furniture and fixtures	31 Leather and leather goods	37 Transportation equipment	

(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establish- ments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Idaho, total.....	981	232	...	...	12	505	11	2	94	12	...	...	3	29	7	21	24	1	9	2	17
1 to 4 employees.....	474	76	...	...	8	270	8	...	52	7	...	...	3	11	2	9	12	...	5	1	10
5 to 9 employees.....	158	37	...	...	2	78	1	...	22	...	...	...	...	4	2	5	4	1	...	1	1
10 to 19 employees.....	145	40	...	...	1	68	1	...	11	1	...	...	...	9	...	3	5	...	3	...	3
20 to 49 employees.....	111	47	...	...	1	45	1	...	5	1	...	...	...	3	...	3	3	...	...	...	2
50 to 99 employees.....	45	19	...	...	...	20	...	...	3	...	...	...	...	1	1	...	...	...	1	...	...
100 to 249 employees.....	31	10	...	...	...	14	...	1	1	2	...	...	...	1	...	1	...	...	...	...	1
250 to 499 employees.....	12	1	...	...	...	9	...	...	...	1	...	...	...	...	1	...	...	...	...	...	...
500 to 999 employees.....	4	2	...	...	...	...	...	1	...	...	...	...	...	...	1	...	...	...	...	...	...
1,000 to 2,499 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Ada:																					
1 to 19 employees.....	89	20	...	...	1	15	4	...	13	4	...	...	1	5	1	9	5	...	3	2	6
20 to 99 employees.....	24	14	...	...	1	3	...	...	...	...	...	...	...	2	...	1	2	...	1	...	...
100 employees and over.....	3	...	...	...	1	...	...	...	1	...	...	...	...	...	...	1	...	...	...	...	...
Adams:																					
1 to 19 employees.....	3	...	...	...	...	2	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Bannock:																					
1 to 19 employees.....	30	9	...	...	1	8	1	...	6	...	...	...	...	1	...	3	...	...	1	...	...
20 to 99 employees.....	10	7	...	...	...	...	...	...	1	...	...	...	...	...	...	1	...	...	...	...	1
100 employees and over.....	3	1	...	...	...	...	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...
Bear Lake:																					
1 to 19 employees.....	12	4	...	...	...	5	1	...	1	...	...	...	...	1	...	...	...	...	...	...	...
Benewah:																					
1 to 19 employees.....	68	3	...	...	...	64	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Bingham:																					
1 to 19 employees.....	16	9	...	...	...	2	...	...	3	...	...	...	...	...	...	...	2	...	...	...	...
20 to 99 employees.....	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Blaine:																					
1 to 19 employees.....	6	2	...	...	...	2	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1
Boise:																					
1 to 19 employees.....	17	...	...	...	...	15	...	...	...	...	...	...	...	...	...	...	1	...	1	...	...
20 to 99 employees.....	3	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Bonner:																					
1 to 19 employees.....	45	2	...	...	...	38	...	...	3	...	...	...	...	1	...	...	...	...	1	...	...
20 to 99 employees.....	5	...	...	...	...	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	3	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Bonneville:																					
1 to 19 employees.....	23	8	...	...	2	2	...	...	3	...	...	...	1	1	1	1	2	...	...	...	2
20 to 99 employees.....	7	5	...	...	...	...	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	4	4	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Boundary:																					
1 to 19 employees.....	16	...	...	...	...	15	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	5	1	...	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Butte:																					
1 to 19 employees.....	2	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Camas:																					
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Canyon:																					
1 to 19 employees.....	38	16	...	...	...	5	1	...	5	1	...	...	...	4	...	3	1	1	...	...	1
20 to 99 employees.....	15	8	...	...	...	1	...	...	3	1	...	...	...	1	...	...	1	...	...	...	...
100 employees and over.....	4	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Caribou:																					
1 to 19 employees.....	7	5	...	...	...	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
Cassia:																					
1 to 19 employees.....	10	3	...	...	1	...	...	...	4	...	...	...	...	1	...	...	...	...	...	...	1
20 to 99 employees.....	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Clark:																					
1 to 19 employees.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Clearwater:																					
1 to 19 employees.....	43	1	...	...	...	40	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...
20 to 99 employees.....	15	...	...	...	...	15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	4	...	...	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Custer:																					
1 to 19 employees.....	3	...	...	...	...	2	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...

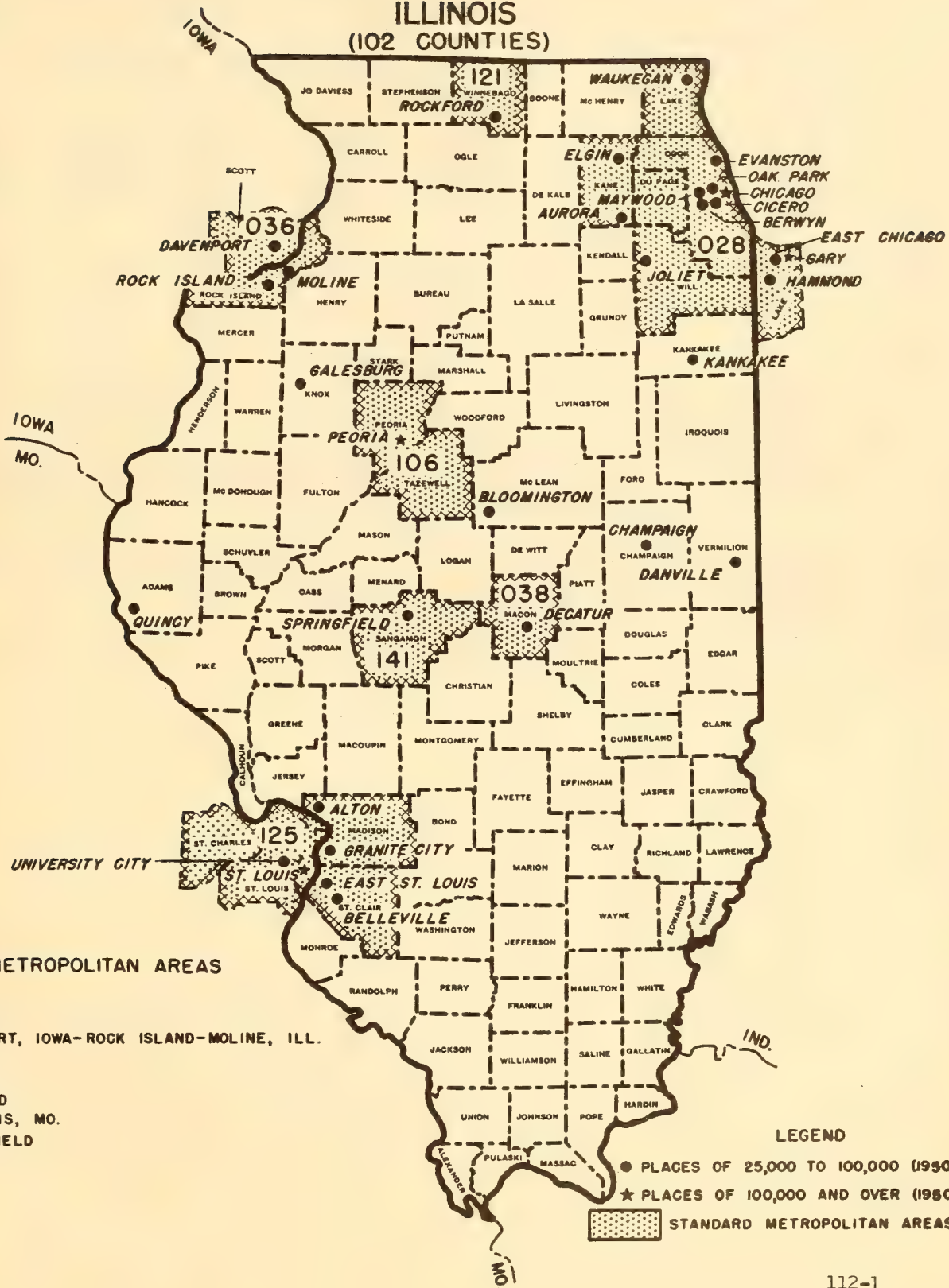


Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954—Continued  
(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Elmore:																					
1 to 19 employees.....	6	...	...	...	...	5	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Franklin:																					
1 to 19 employees.....	6	4	...	...	...	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	3	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Fremont:																					
1 to 19 employees.....	11	3	...	...	...	6	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Gem:																					
1 to 19 employees.....	8	2	...	...	...	4	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	2	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Gooding:																					
1 to 19 employees.....	7	3	...	...	...	1	...	...	2	...	...	...	...	...	...	...	1	...	...	...	...
Idaho:																					
1 to 19 employees.....	37	3	...	...	...	30	...	...	2	...	...	...	1	1	...	...	...	...	...	...	...
20 to 99 employees.....	9	...	...	...	...	9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Jefferson:																					
1 to 19 employees.....	6	3	...	...	...	2	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Jerome:																					
1 to 19 employees.....	9	2	...	...	1	1	...	...	2	...	...	...	...	2	...	...	1	...	...	...	...
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Kootenai:																					
1 to 19 employees.....	53	6	...	...	...	43	...	...	2	...	...	...	...	...	...	...	...	...	2	...	...
20 to 99 employees.....	9	2	...	...	...	6	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	4	...	...	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Latah:																					
1 to 19 employees.....	32	2	...	...	...	26	...	...	1	...	...	...	...	1	1	...	1	...	...	...	...
20 to 99 employees.....	5	1	...	...	...	3	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Lemhi:																					
1 to 19 employees.....	14	2	...	...	...	11	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Lewis:																					
1 to 19 employees.....	14	2	...	...	...	10	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Lincoln:																					
1 to 19 employees.....	3	1	...	...	...	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Madison:																					
1 to 19 employees.....	5	1	...	...	...	1	...	...	2	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	3	2	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Minidoka:																					
1 to 19 employees.....	5	2	...	...	...	...	...	...	1	...	...	...	...	1	...	1	...	...	...	...	...
100 employees and over.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Nez Perce:																					
1 to 19 employees.....	28	6	...	...	2	12	...	...	2	1	...	...	...	2	1	...	...	...	...	...	2
20 to 99 employees.....	6	4	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
100 employees and over.....	5	...	...	...	...	3	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...
Oneida:																					
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Owyhee:																					
1 to 19 employees.....	2	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Payette:																					
1 to 19 employees.....	11	5	...	...	...	2	1	...	1	...	...	...	...	1	...	...	1	...	...	...	...
20 to 99 employees.....	2	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Power:																					
1 to 19 employees.....	2	...	...	...	...	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
Shoshone:																					
1 to 19 employees.....	31	3	...	...	...	25	...	...	2	1	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	4	...	...	...	...	3	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...
Teton:																					
1 to 19 employees.....	3	2	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Twin Falls:																					
1 to 19 employees.....	37	15	...	...	3	3	2	...	6	1	...	...	...	1	...	...	5	...	...	...	1
20 to 99 employees.....	10	8	...	...	...	...	...	...	1	...	...	...	...	...	...	1	...	...	...	...	...
100 employees and over.....	1	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Valley:																					
1 to 19 employees.....	8	...	...	...	...	7	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Washington:																					
1 to 19 employees.....	10	3	...	...	...	6	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	2	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...



# ILLINOIS (102 COUNTIES)





## MANUFACTURES—AREA STATISTICS

Table 1.—MANUFACTURING EMPLOYMENT AT OPERATING ESTABLISHMENTS AND CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARIES FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS

(This table includes data for all manufacturing employees including those located in central administrative offices and auxiliaries. Tables 2-7 in this report include data for operating establishments only. For explanation of column captions see Introduction)

State, standard metropolitan area, and year <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	(Number)	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
Illinois:						
1954.....	1,224,634	5,430,192	1,177,933	5,137,353	46,701	292,839
1953 <sup>2</sup> .....	1,316,089	5,668,441	1,284,031	5,495,229	32,058	173,212
1952 <sup>2</sup> .....	1,255,635	5,156,159	1,234,323	5,050,519	<sup>3</sup> 21,312	<sup>3</sup> 105,640
1951 <sup>2</sup> .....	1,241,013	4,814,799	1,219,701	4,709,159	21,312	105,640
1950 <sup>2</sup> .....	1,187,296	4,150,983	1,163,316	4,042,835	23,980	108,148
1949 <sup>2</sup> .....	1,132,352	3,820,173	1,103,973	3,697,953	28,379	122,220
1954						
Standard metropolitan areas:						
Chicago <sup>4</sup> .....	983,460	4,513,579	942,819	4,256,393	40,641	257,186
Davenport-Rock Island-Moline <sup>5</sup> .....	36,021	160,156	35,284	154,388	737	5,768
Decatur <sup>6</sup> .....	12,217	53,530	12,184	52,880	33	650
Peoria <sup>7</sup> .....	41,229	185,772	37,779	167,348	3,450	18,424
Rockford <sup>8</sup> .....	38,194	177,568	38,194	177,568	...	...
St. Louis <sup>9</sup> .....	264,117	1,131,488	251,766	1,060,335	12,351	71,153
Springfield <sup>10</sup> .....	12,857	53,414	12,816	53,256	41	158

<sup>1</sup>Employment data for administrative offices and auxiliaries on a State basis are not available for the years prior to 1949. Similar data for standard metropolitan areas are available only for 1954.<sup>2</sup>The employment figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period. The employment figures for administrative and auxiliary units were compiled chiefly from Bureau of Old-Age and Survivors Insurance records and are not strictly comparable with the figures for these units that were collected by the Bureau of the Census for the year 1954.<sup>3</sup>The 1951 data are shown for 1952 since auxiliary and administrative unit data were not collected in 1952. In some instances, the figures have been withheld because the estimates did not meet publication standards.<sup>4</sup>The Chicago Standard Metropolitan Area consists of Cook, Du Page, Kane, Lake, and Will Counties, Illinois and Lake County, Indiana.<sup>5</sup>The Davenport-Rock Island-Moline Standard Metropolitan Area consists of Rock Island County, Illinois and Scott County, Iowa.<sup>6</sup>The Decatur Standard Metropolitan Area consists of Macon County, Illinois.<sup>7</sup>The Peoria Standard Metropolitan Area consists of Peoria and Tazewell Counties, Illinois.<sup>8</sup>The Rockford Standard Metropolitan Area consists of Winnebago County, Illinois.<sup>9</sup>The St. Louis Standard Metropolitan Area consists of Madison and St. Clair Counties, Illinois; St. Charles and St. Louis Counties and St. Louis City, Missouri.<sup>10</sup>The Springfield Standard Metropolitan Area consists of Sangamon County, Illinois.

Table 2.—GENERAL STATISTICS FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Year	Establish- ments, number	All employees		Production workers		Value added by manufacture (\$1,000)
		Number	Payroll (\$1,000)	Number	Wages (\$1,000)	
ILLINOIS						
1954 <sup>1</sup> .....	17,628	1,177,933	5,137,353	903,784	3,520,339	9,668,752
1953 <sup>2</sup> .....	} (NA)	1,284,031	5,495,229	1,003,889	3,901,970	10,111,624
1952 <sup>2</sup> .....		1,234,323	5,050,519	956,714	3,547,742	9,319,779
1951 <sup>2</sup> .....		1,219,701	4,709,159	956,588	3,347,116	8,835,548
1950 <sup>2</sup> .....		1,163,316	4,042,835	909,035	2,851,103	7,933,449
1949 <sup>2</sup> .....		1,103,973	3,697,953	860,475	2,557,792	6,898,999
1947.....	15,993	1,186,134	3,589,364	955,057	2,628,615	6,683,083
1939.....	11,983	752,728	1,107,625	590,995	742,451	2,187,240
1937.....	11,764	787,097	1,136,628	668,841	862,793	2,319,036
1935.....	12,018	625,159	797,330	525,945	581,388	1,612,069
1933.....	10,740	} (NA)	} (NA)	420,334	403,682	1,200,784
1931.....	13,188			484,195	589,805	1,738,812
1929.....	15,333			691,555	1,024,870	2,930,038
1927.....	14,711			623,468	914,103	2,464,911
1925.....	14,117			622,368	897,970	2,395,774
1923.....	14,345	} (NA)	} (NA)	645,627	913,220	2,246,501
1921.....	13,952			513,876	701,530	1,606,630
1919.....	17,808			649,994	797,081	1,929,125
1914.....	18,153			509,184	340,281	905,831
1909.....	18,026			465,764	273,319	758,350
1904.....	14,921	433,957	268,965	379,436	208,405	570,285
1899.....	14,374	373,835	199,653	332,871	159,104	439,418
CHICAGO STANDARD METROPOLITAN AREA						
1954 <sup>1</sup> .....	13,456	942,819	4,256,393	718,642	2,897,563	7,893,423
1947.....	12,285	946,041	2,995,636	756,275	2,177,440	5,529,227
1939.....	9,058	609,940	941,363	478,126	632,529	1,896,111
1929.....	11,693	636,464	1,137,863	527,677	830,322	2,477,970
1919.....	12,399	(NA)	(NA)	520,133	677,238	1,670,150
PEORIA STANDARD METROPOLITAN AREA						
1954 <sup>1</sup> .....	313	37,779	167,348	30,211	124,639	362,496
1947.....	278	42,511	123,726	34,492	94,376	280,670
1939.....	265	21,962	34,440	18,875	28,023	85,046
1929.....	268	18,067	27,840	14,773	20,143	82,024
1919.....	383	(NA)	(NA)	12,304	13,684	42,519
ST. LOUIS STANDARD METROPOLITAN AREA						
1954 <sup>1</sup> .....	3,128	251,766	1,060,335	191,375	725,307	2,053,083
1947.....	2,959	244,481	664,597	200,103	490,880	1,295,842
1939.....	2,549	162,238	227,865	126,416	151,860	461,772
1929.....	3,258	174,798	259,764	147,449	189,423	609,157
1919.....	4,011	(NA)	(NA)	154,311	164,281	454,815

NA Not available.

<sup>1</sup>The 1954 figures include data for establishments engaged in the processing and distribution of fluid milk, Industry Group 202, Dairy Products. These establishments were not included in the figures for the Annual Survey years 1949-1953 or earlier Census years. In addition, the 1954 Census and Annual Survey years include data for Logging Camps and Contractors, Industry 2411, which were not included within the scope of the 1947 Census. See footnotes to Table 4 for comparable 1954 and 1947 totals. There were also a number of changes in the definition of manufacturing industries during earlier Census years that affect the comparability of the historical series. Among the more important of these were: figures for 1935 and later years exclude data for "Railroad repair shops" and "Manufactured gas" which were included in 1899-1933 figures; the minimum size of establishment included for 1954 and 1947 was one employee, for 1939-1921 manufacturing establishments reporting value of shipments of \$5,000 or more were within scope whereas for 1919 and earlier years the cutoff was \$500. (This change in procedure has not appreciably affected the comparability of the historical data except for the figures on number of establishments.)

<sup>2</sup>The employment and payroll figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period.



## MANUFACTURES—AREA STATISTICS

Table 3.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
Illinois, total.....	8,712,176	17,628	1,177,933	5,137,353	903,784	1,789,154	3,520,339	9,668,752	551,882	1,186,134	16,683,083
STANDARD METROPOLITAN AREAS											
Chicago area.....	5,495,364	13,456	942,819	4,256,393	718,642	1,419,045	2,897,563	7,893,423	427,396	946,041	5,529,227
Portion in Illinois.....	5,127,212	13,095	843,531	3,779,960	639,124	1,266,609	2,538,501	6,928,109	326,468	853,151	4,941,849
Portion in Indiana.....	368,152	361	99,288	476,433	79,518	152,436	359,062	965,314	100,928	92,890	587,378
Davenport-Rock Island- Moline area.....	234,256	364	35,284	154,388	26,750	52,402	108,778	282,406	19,251	37,322	171,663
Portion in Illinois.....	133,558	198	22,878	102,571	17,356	33,473	72,317	176,773	14,326	28,050	128,515
Portion in Iowa.....	100,698	166	12,406	51,817	9,394	18,929	36,461	105,633	4,925	9,272	43,148
Decatur.....	98,853	140	12,184	52,880	8,898	17,887	33,894	98,784	18,070	10,310	82,565
Peoria.....	250,812	313	37,778	167,347	30,211	59,984	124,639	362,496	20,934	42,511	280,670
Rockford.....	152,385	439	38,194	177,568	29,318	61,937	124,101	312,770	16,255	35,054	188,535
St. Louis area.....	1,681,281	3,128	251,766	1,060,335	191,375	373,705	725,307	2,053,083	131,183	244,481	1,295,842
Portion in Illinois.....	388,302	450	55,686	246,154	42,605	84,396	174,631	502,136	69,171	59,280	323,517
Portion in Missouri.....	1,292,979	2,678	196,080	814,181	148,770	289,309	550,676	1,550,947	62,012	185,201	972,325
Springfield area.....	131,484	155	12,816	53,256	9,579	19,182	36,964	111,208	4,022	12,047	54,976
COUNTIES											
Adams.....	64,690	112	7,092	24,426	5,500	10,953	17,505	69,749	2,708	9,860	43,193
Alexander.....	20,316	30	982	2,846	836	1,708	2,195	4,486	169	1,159	5,598
Bond.....	14,157	14	522	1,669	436	948	1,243	3,429	155	518	2,410
Boone.....	17,070	40	1,228	4,414	1,013	2,028	3,249	11,369	400	1,911	9,313
Brown.....	7,132	8	108	(D)	58	(D)	(D)	(D)	(D)	(D)	92
Bureau.....	37,711	45	1,787	6,740	1,484	3,195	5,141	13,411	568	1,602	6,934
Calhoun.....	6,898	6	28	74	27	50	72	133	(D)	14	96
Carroll.....	18,976	19	418	1,513	339	765	1,144	3,375	463	327	1,251
Cass.....	15,097	16	504	1,680	395	764	1,128	2,788	441	393	2,824
Champaign.....	106,100	80	2,446	9,671	1,680	3,400	6,181	15,443	949	2,172	11,712
Christian.....	38,816	40	1,630	5,017	1,371	2,655	3,635	9,254	471	1,130	7,059
Clark.....	17,362	23	581	1,779	507	908	1,483	5,434	21	546	2,824
Clay.....	17,445	11	608	1,339	552	1,021	1,157	2,463	61	685	(D)
Clinton.....	22,594	38	1,595	4,603	1,391	2,592	3,537	11,150	507	1,118	6,738
Coles.....	40,328	54	2,991	8,898	2,606	4,805	7,128	18,854	490	3,375	12,947
Cook.....	4,508,792	12,020	766,568	3,445,448	581,674	1,152,794	2,314,677	6,296,850	288,001	788,872	4,547,449
Crawford.....	21,137	25	1,659	6,792	1,412	2,845	5,463	22,240	4,638	1,192	7,322
Cumberland.....	10,496	16	571	1,063	548	654	915	1,727	39	533	1,579
DeKalb.....	40,781	87	6,014	23,714	4,850	9,525	16,935	43,956	2,663	5,714	28,084
DeWitt.....	16,894	10	348	(D)	283	(D)	(D)	(D)	(D)	62	256
Douglas.....	16,706	16	783	3,830	512	1,147	2,287	6,408	(D)	392	1,573
DuPage.....	154,599	226	5,554	22,236	4,360	8,265	15,094	46,527	3,471	2,863	15,554
Edgar.....	23,407	26	1,423	4,551	1,096	2,084	2,848	7,246	101	1,018	4,363
Edwards.....	9,056	10	138	597	94	205	319	1,935	(D)	273	(D)
Effingham.....	21,675	26	1,353	4,203	1,154	2,307	3,366	6,794	367	1,628	6,047
Fayette.....	24,582	22	739	1,558	696	1,262	1,443	2,740	61	1,014	(D)
Ford.....	15,901	19	705	2,332	602	1,224	1,882	7,222	284	428	(D)
Franklin.....	48,685	35	834	1,986	683	1,261	1,440	4,179	371	474	1,353
Fulton.....	43,716	30	2,065	(D)	(D)	(D)	(D)	(D)	(D)	3,178	(D)
Gallatin.....	9,818	3	64	(D)	57	(D)	(D)	(D)	(D)	106	264
Greene.....	18,852	27	474	1,240	395	770	920	1,608	114	305	890
Grundy.....	19,217	30	2,039	9,678	1,702	3,481	7,081	21,224	724	1,801	8,284
Hamilton.....	12,256	11	313	572	292	490	501	901	34	318	(D)
Hancock.....	25,790	24	460	1,414	342	655	918	2,787	174	420	1,725
Hardin.....	7,530	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Henderson.....	8,416	5	48	85	45	66	76	179	2	48	148
Henry.....	46,492	56	3,897	13,453	3,112	5,277	9,760	21,801	1,455	4,339	18,356
Iroquois.....	32,348	31	1,185	3,288	1,000	1,889	2,446	6,445	140	955	3,378
Jackson.....	38,124	40	1,966	5,542	1,718	3,234	4,315	11,059	617	1,479	6,331
Jasper.....	12,266	10	98	198	78	144	144	276	22	139	420
Jefferson.....	35,892	37	2,414	7,923	2,061	3,906	4,974	13,474	452	3,302	12,309
Jersey.....	15,264	8	531	1,537	460	834	1,219	3,330	70	706	2,876
Jo Daviess.....	21,459	28	419	1,357	378	840	1,180	3,123	181	598	2,164
Johnson.....	8,729	5	64	235	47	80	141	472	12	62	165
Kane.....	150,388	369	27,614	117,542	20,498	40,841	76,016	204,487	8,943	26,552	138,002
Kankakee.....	73,524	102	8,883	37,251	6,570	12,917	24,603	90,600	3,765	7,417	37,494
Kendall.....	12,115	22	1,323	5,073	1,064	2,256	3,638	5,778	106	954	5,326
Knox.....	54,336	64	5,262	21,919	4,201	8,057	16,540	40,844	1,690	4,376	21,943
Lake.....	179,097	281	23,857	107,025	17,383	34,212	69,645	212,407	10,852	20,482	139,396
La Salle.....	100,610	146	17,585	74,361	15,078	30,990	61,142	163,114	8,051	16,839	98,898

See footnotes at end of table.



Table 3.--GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
Lawrence.....	20,539	23	1,074	(D)	844	(D)	(D)	(D)	(D)	1,070	(D)
Lee.....	36,451	44	2,093	8,413	1,666	3,389	6,101	18,902	671	2,001	12,248
Livingston.....	37,809	37	1,614	5,376	1,320	2,564	4,089	11,135	1,011	1,509	4,955
Logan.....	30,671	25	1,714	5,441	1,471	2,789	4,314	18,184	886	782	2,793
McDonough.....	28,199	32	1,611	5,702	1,318	2,725	4,216	9,226	782	1,514	5,632
McHenry.....	50,656	134	6,797	24,822	5,794	11,495	19,894	55,754	2,116	4,650	22,248
McLean.....	76,577	85	4,534	16,603	3,699	7,457	12,492	39,925	5,833	4,520	26,335
Macon.....	98,853	140	12,184	52,880	8,898	17,887	33,894	98,784	18,070	10,310	82,565
Macoupin.....	44,210	39	635	1,464	536	1,009	1,083	2,488	101	596	1,815
Madison.....	182,307	199	32,825	150,016	24,905	49,579	105,653	332,077	45,693	34,122	199,632
Marion.....	41,700	45	2,245	6,209	1,910	3,731	4,672	10,495	225	1,767	8,983
Marshall.....	13,025	17	610	1,777	555	1,074	1,493	2,658	100	412	1,873
Mason.....	15,326	15	181	538	143	283	396	790	69	589	2,307
Massac.....	13,594	14	725	1,535	666	1,179	1,326	2,050	52	998	3,222
Menard.....	9,639	9	119	407	96	206	332	1,037	(D)	97	421
Mercer.....	17,374	12	269	988	225	480	761	1,364	43	263	744
Monroe.....	13,282	15	174	473	153	286	397	849	36	184	488
Montgomery.....	32,460	52	1,792	5,349	1,511	2,581	4,077	8,327	1,000	2,139	9,543
Morgan.....	35,568	31	1,985	6,211	1,635	3,223	4,477	16,688	926	1,352	5,209
Moultrie.....	13,171	14	573	1,402	537	918	1,215	3,106	97	552	2,036
Ogle.....	33,429	57	3,218	13,330	2,719	5,295	10,393	20,208	1,839	3,097	16,726
Peoria.....	174,347	242	14,995	68,552	11,443	23,022	47,977	155,545	7,969	17,476	158,056
Perry.....	21,684	24	883	2,443	729	1,565	1,696	3,956	947	897	2,708
Piatt.....	13,970	18	250	761	185	369	502	3,642	45	307	2,204
Pike.....	22,155	28	902	2,318	804	1,474	1,901	9,770	104	777	2,632
Pope.....	5,779	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Pulaski.....	13,639	7	290	776	233	428	545	915	54	468	1,245
Putnam.....	4,746	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Randolph.....	31,673	32	2,318	6,428	2,072	3,739	5,489	14,793	532	2,370	9,217
Richland.....	16,889	12	819	1,816	733	1,283	1,554	3,287	251	1,152	(D)
Rock Island.....	133,558	198	22,878	102,571	17,356	33,473	72,317	176,773	14,326	28,050	128,515
St. Clair.....	205,995	251	22,861	96,138	17,700	34,817	68,978	170,059	23,478	25,158	123,885
Saline.....	33,420	22	511	1,451	369	795	881	2,596	107	380	1,123
Sangamon.....	131,484	155	12,816	53,256	9,579	19,182	36,964	111,208	4,022	12,047	54,976
Schuyler.....	9,613	8	275	924	231	449	644	1,774	68	164	(D)
Scott.....	7,425	4	53	112	47	92	94	161	14	51	(D)
Shelby.....	24,434	15	679	2,347	552	1,041	1,732	2,551	318	872	2,958
Stark.....	8,721	11	246	884	192	418	648	1,774	238	292	1,356
Stephenson.....	41,595	69	5,385	20,160	3,900	8,005	13,116	37,615	2,900	4,686	18,846
Tazewell.....	76,165	71	22,783	98,795	18,768	36,962	76,662	206,951	12,965	25,035	122,614
Union.....	20,500	21	768	1,695	678	1,244	1,482	3,228	146	940	2,370
Vermilion.....	87,079	125	9,640	37,123	7,857	15,449	27,423	73,468	5,074	7,495	33,377
Wabash.....	14,651	13	482	1,725	377	738	1,232	3,419	170	1,274	3,994
Warren.....	21,981	24	827	2,308	692	1,404	1,809	4,068	258	599	2,491
Washington.....	14,460	26	268	810	233	413	598	1,560	68	572	2,170
Wayne.....	20,933	12	961	(D)	735	(D)	(D)	(D)	(D)	1,215	(D)
White.....	20,935	21	507	1,103	449	800	909	1,908	44	343	1,203
Whiteside.....	49,336	68	7,001	29,814	5,562	11,291	22,847	60,840	2,724	6,187	37,573
Will.....	134,336	199	19,938	87,709	15,209	30,497	63,069	167,838	15,201	14,382	101,448
Williamson.....	48,621	46	3,332	9,520	2,777	5,186	7,322	22,648	683	1,158	4,876
Winnebago.....	152,385	439	38,194	177,568	29,318	61,937	124,101	312,770	16,255	35,054	188,535
Woodford.....	21,335	23	505	1,649	398	788	1,188	2,614	157	496	1,481
CITIES WITH 10,000 INHAB- ITANTS OR MORE											
Alton.....	32,550	38	6,454	28,558	5,663	11,482	23,984	65,652	2,048	4,757	25,684
Arlington Heights.....	8,768	21	935	3,339	764	1,429	2,301	4,969	339	(NA)	(NA)
Aurora.....	50,576	122	9,735	40,949	7,271	14,422	26,590	78,007	2,924	9,320	49,681
Belleville.....	32,721	77	3,581	12,863	3,095	5,712	10,065	25,152	750	4,093	19,675
Bellwood.....	8,746	32	5,260	24,281	4,122	8,328	16,521	40,114	2,892	(NA)	(NA)
Berwyn.....	51,280	28	139	394	110	187	300	867	96	71	297
Bloomington.....	34,163	56	3,946	14,332	3,251	6,532	10,876	32,780	604	4,302	25,434
Blue Island.....	17,622	47	2,241	9,904	1,921	4,062	7,573	18,160	881	1,760	9,136
Brookfield.....	15,472	19	416	2,069	236	507	1,019	3,651	209	139	433
Cairo.....	12,123	19	419	1,212	333	664	807	2,385	140	847	4,622
Calumet City.....	15,799	16	606	2,625	449	933	1,823	5,170	415	731	5,648
Canton.....	11,927	8	1,957	(D)	1,447	(D)	(D)	(D)	(D)	3,022	(D)
Carbondale.....	10,921	13	608	1,580	459	893	1,019	2,865	200	(NA)	(NA)
Centralia.....	13,863	19	1,264	3,485	1,018	2,140	2,464	6,155	93	756	4,948

See footnotes at end of table.

## MANUFACTURES—AREA STATISTICS

Table 3.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
Champaign.....	39,563	36	1,306	4,642	878	1,758	2,869	8,263	421	1,521	6,233
Chicago.....	3,620,962	10,288	615,737	2,732,203	469,010	927,047	1,840,502	4,948,565	190,156	668,056	3,823,371
Chicago Heights.....	24,551	74	6,600	28,880	5,175	10,334	20,150	51,012	3,274	7,368	44,326
Cicero.....	67,544	170	36,081	178,202	25,979	51,538	115,254	264,507	15,410	41,242	238,951
Collinsville.....	11,862	13	576	1,480	503	967	1,193	2,190	178	(NA)	(NA)
Danville.....	37,864	85	7,481	29,173	6,102	11,820	21,464	57,783	4,049	4,190	20,829
Decatur.....	66,269	116	10,589	45,894	7,612	15,377	28,892	87,001	4,513	9,897	76,269
DeKalb.....	11,708	32	3,010	12,084	2,493	4,960	9,248	23,349	1,219	(NA)	(NA)
Des Plaines.....	14,994	53	2,258	10,103	1,785	3,681	7,215	19,802	1,409	(NA)	(NA)
Dixon.....	11,523	29	1,493	6,078	1,156	2,302	4,312	12,405	510	1,674	10,148
Downers Grove.....	11,886	19	843	3,381	660	1,312	2,471	8,335	416	(NA)	(NA)
East Moline.....	13,913	20	7,363	36,081	5,591	10,828	25,889	50,485	2,848	9,197	38,139
East St. Louis.....	82,295	89	6,381	26,610	4,777	9,253	17,808	45,221	2,797	6,432	32,864
Elgin.....	44,223	86	6,203	25,679	4,247	8,313	15,533	43,817	2,110	7,040	34,675
Elmhurst.....	21,273	15	137	610	81	133	293	1,087	30	81	497
Elmwood Park.....	18,801	18	266	1,223	225	472	935	1,893	92	110	611
Evanston.....	73,641	130	4,058	18,569	2,774	5,470	10,617	32,863	1,596	2,738	15,228
Evergreen Park.....	10,531	6	97	343	76	170	253	817	48	(NA)	(NA)
Forest Park.....	14,969	39	1,005	4,037	854	1,670	3,078	6,575	192	916	5,004
Franklin Park.....	8,899	127	4,275	21,291	3,404	7,142	14,699	44,755	4,460	(NA)	(NA)
Freeport.....	22,467	37	4,897	18,569	3,497	7,169	11,971	34,196	2,761	4,398	17,211
Galesburg.....	31,425	48	3,092	13,614	2,434	5,161	10,088	27,066	1,053	2,868	14,561
Glen Ellyn.....	9,524	6	58	266	36	72	161	485	70	(NA)	(NA)
Glenview.....	6,142	11	69	322	59	140	252	652	19	(NA)	(NA)
Granite City.....	29,465	41	8,221	38,988	6,544	12,918	27,878	75,953	15,101	6,320	34,043
Harrisburg.....	10,999	12	377	1,037	267	575	605	1,949	81	274	908
Harvey.....	20,683	35	6,548	32,730	4,789	9,601	21,710	56,275	1,587	7,753	47,371
Highland Park.....	16,808	19	343	1,453	260	440	798	2,227	94	284	996
Homewood.....	5,887	11	287	1,072	219	402	645	1,894	15	(NA)	(NA)
Jacksonville.....	20,387	26	1,781	(D)	1,500	(D)	(D)	(D)	(D)	1,299	5,083
Joliet.....	51,601	120	8,208	33,624	6,177	11,845	23,575	67,099	1,915	8,249	48,244
Kankakee.....	25,856	44	2,369	8,248	1,848	3,459	5,416	18,744	575	2,698	12,608
Kewanee.....	16,821	26	3,217	10,699	2,607	4,263	8,073	15,853	1,036	3,704	15,074
La Grange.....	12,002	18	484	1,874	362	684	1,266	3,156	147	303	1,441
Lansing.....	8,682	18	356	1,428	300	595	1,127	2,463	142	(NA)	(NA)
La Salle.....	12,083	16	1,116	4,459	940	1,861	3,587	7,977	356	1,178	6,994
Lincoln.....	14,362	17	1,680	5,356	1,447	2,739	4,245	18,031	873	763	2,733
Lombard.....	9,817	9	43	141	35	66	102	247	18	(NA)	(NA)
Macomb.....	10,592	10	776	2,497	615	1,244	1,855	2,714	539	(NA)	(NA)
Marion.....	10,459	10	156	554	109	217	376	1,042	67	(NA)	(NA)
Mattoon.....	17,547	32	2,179	6,929	1,842	3,461	5,306	15,552	404	2,547	10,817
Maywood.....	27,473	39	3,089	13,631	2,311	4,374	9,331	23,306	2,033	2,685	14,292
Melrose Park.....	13,366	75	11,622	51,915	8,854	17,458	35,400	86,298	4,167	6,591	16,287
Moline.....	37,397	86	6,676	30,157	4,942	9,911	20,811	56,542	1,651	6,921	37,020
Monmouth.....	10,193	17	732	1,971	607	1,191	1,503	3,189	235	(NA)	(NA)
Mt. Vernon.....	15,600	24	2,307	7,560	1,968	3,710	4,672	12,743	418	3,246	(D)
Oak Lawn.....	8,751	16	251	1,157	204	354	747	2,031	96	(NA)	(NA)
Oak Park.....	63,529	44	391	1,643	298	570	1,074	3,322	183	416	2,078
Ottawa.....	16,957	24	633	2,508	454	952	1,529	4,346	72	(NA)	(NA)
Park Forest.....	8,138	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Park Ridge.....	16,602	11	59	200	45	92	130	613	44	40	121
Pekin.....	21,858	18	2,333	10,132	1,886	3,692	7,480	27,103	2,868	2,290	20,872
Peoria.....	111,856	195	10,937	48,080	8,139	16,386	32,471	106,063	4,670	13,652	120,249
Quincy.....	41,450	97	4,733	14,672	3,721	7,238	10,451	31,969	1,270	5,875	(D)
Rantoul.....	6,387	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Riverdale.....	5,840	11	3,645	16,011	2,898	5,400	12,292	38,857	3,039	(NA)	(NA)
River Forest.....	10,823	8	557	2,501	288	568	954	5,933	97	(NA)	(NA)
Rockford.....	92,927	363	35,246	162,956	26,970	56,817	113,777	284,668	14,853	28,073	148,470
Rock Island.....	48,710	69	8,606	35,478	6,646	12,370	25,041	67,946	9,753	11,780	52,607
Skokie.....	14,832	115	6,253	30,060	4,323	8,458	16,931	72,039	3,822	(NA)	(NA)
South Holland.....	3,247	3	58	(D)	51	(D)	(D)	(D)	(D)	(NA)	(NA)
Springfield.....	81,628	110	11,896	50,077	8,806	17,613	34,494	105,985	3,784	7,535	36,589
Sterling.....	12,817	27	4,042	17,404	3,324	6,903	14,552	37,493	1,652	3,494	23,055
Streator.....	16,469	31	4,205	16,876	3,704	7,670	14,405	34,505	2,331	4,978	30,026
Urbana.....	22,834	21	325	1,143	156	305	494	1,488	101	273	(D)
Villa Park.....	8,821	17	355	1,326	305	568	1,023	5,168	124	(NA)	(NA)
Waukegan.....	38,946	65	6,112	31,029	4,588	9,167	21,993	47,466	2,255	6,138	37,242

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

The 1947 data are not strictly comparable with the figures shown for 1954 due to differences in coverage of loggers and fluid milk distributors.  
See discussion in Introduction and footnotes to Table 4.



Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establish- ments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)	
			20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)						Wages (\$1,000)
	All industries, total <sup>1</sup> ...	17,628	6,377	1,177,933	5,137,353	903,784	1,789,154	3,520,339	9,668,752	( <sup>2</sup> )	551,882	<sup>3</sup> 1,186,134	<sup>3</sup> 6,683,083
20	Food and kindred products..	2,239	842	140,151	582,399	103,364	209,489	382,178	1,337,344	( <sup>2</sup> )	67,809	( <sup>4</sup> )	( <sup>4</sup> )
201	Meat products.....	283	117	37,562	166,237	29,841	62,278	124,336	216,044	( <sup>2</sup> )	13,602	40,389	184,479
2011	Meat packing, plants.....	106	46	26,526	117,936	21,306	44,567	92,085	135,944	( <sup>2</sup> )	10,511	29,515	125,546
2013	Prepared meats.....	121	57	9,655	44,829	7,318	15,557	29,667	75,187	( <sup>2</sup> )	2,714	10,271	57,538
2015	Poultry dressing, plants.....	56	14	1,381	3,471	1,216	2,154	2,584	4,912	( <sup>2</sup> )	376	603	1,395
202	Dairy products.....	494	183	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2021	Creamery butter.....	36	13	774	2,689	488	1,058	1,517	5,926	( <sup>2</sup> )	366	( <sup>4</sup> )	( <sup>4</sup> )
2022	Natural cheese.....	85	19	1,156	4,095	959	2,259	3,307	8,146	( <sup>2</sup> )	1,138	( <sup>4</sup> )	( <sup>4</sup> )
2023	Concentrated milk.....	34	14	961	3,824	792	1,756	2,879	13,611	( <sup>2</sup> )	767	( <sup>4</sup> )	( <sup>4</sup> )
2024	Ice cream and ices.....	84	28	2,188	9,398	1,211	2,431	4,034	19,279	( <sup>2</sup> )	1,457	( <sup>4</sup> )	( <sup>4</sup> )
2026	Fluid milk.....	32	8	746	3,134	612	1,268	2,543	10,335	( <sup>2</sup> )	39,898	(D)	( <sup>4</sup> )
2027	Fluid milk and other products..	208	96	7,136	32,140	3,928	8,458	14,949	82,855	( <sup>2</sup> )	4,017	( <sup>4</sup> )	( <sup>4</sup> )
203	Canned and frozen foods.....	152	73	10,053	36,753	8,344	16,411	26,113	91,044	( <sup>2</sup> )	4,190	(D)	(D)
2032	Cured fish.....	7	4	265	864	219	460	571	1,251	( <sup>2</sup> )	46	224	823
2033	Canned fruits and vegetables...	91	48	7,710	27,801	6,466	12,914	20,463	72,982	( <sup>2</sup> )	3,272	8,331	48,752
2035	Pickles and sauces.....	43	17	1,601	6,016	1,377	2,713	4,571	12,751	( <sup>2</sup> )	760	1,475	14,895
204	Grain mill products.....	160	58	8,352	36,972	6,080	12,761	24,222	138,301	( <sup>2</sup> )	3,224	9,684	89,761
2042	Prepared animal feeds.....	116	36	3,912	15,786	2,653	5,458	9,858	64,588	( <sup>2</sup> )	1,266	5,407	36,202
2045	Flour mixes.....	17	7	1,533	7,609	1,208	2,407	4,892	31,511	( <sup>2</sup> )	631	382	(D)
205	Bakery products.....	402	137	21,868	87,704	14,373	28,806	50,146	175,638	( <sup>2</sup> )	5,827	19,541	98,331
2051	Bread and related products.....	384	121	14,616	61,338	8,719	17,949	31,460	99,549	( <sup>2</sup> )	4,394	14,878	70,641
2052	Biscuit and crackers.....	18	16	7,251	26,366	5,654	10,857	18,686	76,088	( <sup>2</sup> )	1,433	4,663	27,690
207	Candy and related products...	132	58	16,413	57,547	13,076	25,907	40,027	162,392	( <sup>2</sup> )	5,351	17,906	160,705
2071	Confectionery products.....	127	53	15,066	51,998	11,971	23,772	35,969	120,729	( <sup>2</sup> )	3,863	15,938	132,802
208	Beverages.....	257	81	11,109	51,017	6,996	13,821	28,685	140,119	( <sup>2</sup> )	9,390	14,354	155,480
2081	Bottled soft drinks.....	223	52	4,554	18,697	2,076	4,081	6,409	36,719	( <sup>2</sup> )	3,143	4,194	23,290
2082	Beer and ale.....	22	20	3,678	17,347	2,540	4,999	11,404	42,410	( <sup>2</sup> )	3,744	5,479	56,985
2085	Distilled liquor.....	6	3	2,413	12,026	2,016	3,989	8,963	48,912	( <sup>2</sup> )	1,715	4,120	63,374
209	Miscellaneous foods.....	358	134	20,190	83,865	15,239	29,537	53,564	263,256	( <sup>2</sup> )	17,333	19,923	210,377
2092	Shortening and cooking oils....	12	8	1,482	6,987	1,097	2,336	4,819	23,015	( <sup>2</sup> )	941	961	18,502
2094	Corn wet milling.....	5	4	7,118	30,034	5,629	10,575	21,752	87,962	( <sup>2</sup> )	10,814	6,553	(D)
2095	Flavorings.....	63	17	1,897	8,433	1,296	2,398	4,057	33,580	( <sup>2</sup> )	1,059	1,488	21,018
2097	Manufactured ice.....	69	20	1,144	4,391	791	1,806	3,000	8,031	( <sup>2</sup> )	259	2,316	12,835
2098	Macaroni and spaghetti.....	24	10	800	2,257	648	1,104	1,502	4,697	( <sup>2</sup> )	213	967	(D)
2099	Food preparations, n.e.c.....	178	68	6,808	27,474	5,072	9,912	15,294	87,946	( <sup>2</sup> )	3,613	5,997	54,496
21	Tobacco manufactures.....	32	2	579	1,974	518	918	1,732	11,720	( <sup>2</sup> )	21	808	(D)
22	Textile mill products.....	126	61	10,080	36,836	8,287	16,456	25,299	61,885	( <sup>2</sup> )	2,141	11,733	58,980
222	Yarn and thread mills.....	4	2	454	1,194	390	732	905	1,908	( <sup>2</sup> )	44	(D)	(D)
223	Broad-woven fabrics.....	11	5	333	1,137	298	596	843	1,503	( <sup>2</sup> )	37	184	960
225	Knitting mills.....	28	13	2,077	5,886	1,829	3,320	4,461	9,101	( <sup>2</sup> )	170	2,854	9,364
2253	Knit outerwear mills.....	13	4	279	811	248	417	582	1,353	( <sup>2</sup> )	2,471	624	2,106
2261	Finishing textiles exc. wool.	15	7	483	1,973	401	834	1,293	2,593	( <sup>2</sup> )	5,632	104	1,848
229	Miscellaneous textile goods..	47	24	4,134	17,741	3,256	6,946	11,467	32,314	( <sup>2</sup> )	1,604	4,517	27,998
2291	Felt goods, n.e.c.....	8	4	1,076	4,518	859	1,818	3,172	8,461	( <sup>2</sup> )	18,227	485	979
2293	Padding and upholstery filling.	21	11	699	2,780	591	1,267	1,862	5,096	( <sup>2</sup> )	13,301	289	635
2294	Processed textile waste.....	4	2	103	363	79	158	261	658	( <sup>2</sup> )	1,656	8	136
2298	Cordage and twine.....	7	4	355	1,103	299	573	821	1,532	( <sup>2</sup> )	4,292	15	1,694
23	Apparel and related products.....	1,250	490	50,817	148,613	43,751	76,377	107,663	232,526	( <sup>2</sup> )	3,408	60,390	252,257
231	Men's and boys' suits and coats.....	98	43	10,802	34,440	8,995	14,775	24,979	47,350	( <sup>2</sup> )	354	13,475	60,913
2311	Men's and boys' suits and coats	89	38	10,642	33,987	8,858	14,520	24,631	46,676	( <sup>2</sup> )	80,529	13,266	(D)
2312	Suit and coat findings.....	9	5	159	452	136	255	348	674	( <sup>2</sup> )	1,962	(D)	(D)
232	Men's and boys' furnishings..	169	67	5,775	14,847	5,238	9,221	11,572	22,117	( <sup>2</sup> )	247	6,756	23,505
2321	Men's dress shirts & nightwear.	15	5	627	1,354	567	979	1,063	1,861	( <sup>2</sup> )	3,841	23	494
2325	Men's and boys' cloth hats....	24	11	954	2,678	871	1,510	2,018	4,637	( <sup>2</sup> )	7,637	999	3,071
2327	Separate trousers.....	48	13	1,251	2,861	1,191	2,000	2,579	4,460	( <sup>2</sup> )	9,413	28	1,894
2329	Men's & boys' clothing, n.e.c..	55	32	2,356	6,545	2,102	3,884	4,913	8,850	( <sup>2</sup> )	22,139	175	8,895
233	Women's and misses' outerwear	336	188	16,649	46,926	14,812	25,722	36,039	72,975	( <sup>2</sup> )	908	20,642	77,572
2333	Dresses, unit price.....	120	74	4,949	14,845	4,423	7,276	11,421	21,812	( <sup>2</sup> )	36,951	323	7,474
2334	Dresses, dozen price.....	84	63	7,748	18,046	6,952	12,590	14,062	29,805	( <sup>2</sup> )	61,038	499	8,315
2337	Women's suits, coats, & skirts.	93	31	2,802	10,911	2,434	4,072	8,154	16,407	( <sup>2</sup> )	33,369	45	3,195
2339	Women's outerwear, n.e.c.....	15	7	426	1,224	360	702	829	1,924	( <sup>2</sup> )	4,324	22	1,781
234	Women's undergarments.....	60	33	4,414	14,693	3,605	6,129	8,723	27,991	( <sup>2</sup> )	357	5,702	28,955
2341	Women's & children's underwear.	31	13	1,235	4,041	1,061	1,781	2,662	5,347	( <sup>2</sup> )	14,063	93	1,072
2342	Corsets and allied garments....	29	20	3,178	10,651	2,543	4,348	6,061	22,643	( <sup>2</sup> )	41,303	264	23,913

See footnotes at end of table.



## MANUFACTURES—AREA STATISTICS

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
2351	Apparel and related products—Continued Millinery.....	42	18	1,138	3,900	1,003	1,805	2,999	5,732	9,095	21	1,681	7,141
236	Children's outerwear.....	22	11	1,001	2,109	878	1,423	1,654	4,016	(2)	52	767	3,360
2369	Children's outerwear, n.e.c....	13	9	887	1,835	774	1,249	1,427	3,425	7,721	44	547	2,838
2371	Fur goods.....	60	...	189	719	145	262	524	1,569	3,608	4	255	2,965
238	Miscellaneous apparel.....	73	38	3,813	9,375	3,391	6,186	7,249	14,449	(2)	156	3,992	14,800
2382	Fabric work gloves.....	10	9	1,433	2,700	1,373	2,417	2,470	3,944	8,910	49	1,820	5,770
2384	Robes and dressing gowns.....	11	5	450	1,089	384	684	757	1,888	4,220	10	408	(D)
2387	Belts.....	20	8	571	1,736	504	976	1,246	4,161	7,768	7	520	2,339
2389	Apparel, n.e.c.....	10	5	554	1,614	437	895	1,073	1,877	3,463	(D)	246	905
239	Fabricated textiles, n.e.c...	390	92	7,034	21,603	5,681	10,850	13,922	36,323	(2)	1,307	7,120	33,046
2391	Curtains and draperies.....	69	12	806	2,298	675	1,276	1,546	3,407	7,932	250	383	1,596
2392	House furnishings, n.e.c.....	84	26	2,206	7,214	1,792	3,428	4,560	13,956	34,011	724	2,031	8,967
2393	Textile bags.....	15	5	303	897	250	438	604	1,490	7,931	44	408	5,517
2394	Canvas products.....	77	13	1,142	3,792	795	1,679	2,171	5,641	11,455	86	960	3,931
2395	Tucking, pleating & stitching...	19	3	208	477	186	297	379	709	885	7	456	1,473
2398	Embroideries, except schiffli..	20	3	246	555	224	376	421	811	1,039	10	372	1,422
2399	Textile products, n.e.c.....	65	18	1,409	4,329	1,155	2,164	2,809	6,904	15,895	108	1,567	6,087
24	Lumber and wood products...	704	132	12,495	46,450	10,256	20,120	32,962	69,020	(2)	2,614	(4)	(4)
242	Lumber and basic products....	208	16	1,539	4,014	1,410	2,722	3,310	6,863	(2)	378	1,292	3,984
2421	Sawmills and planing mills....	197	10	1,237	3,069	1,140	2,234	2,586	5,405	10,398	349	(D)	(D)
243	Millwork and related products	247	53	5,292	22,969	3,992	7,793	15,199	33,095	(2)	1,581	4,278	19,664
2431	Millwork plants.....	228	42	4,557	19,925	3,427	6,694	13,215	27,631	55,829	1,339	3,363	16,782
244	Wooden containers.....	73	25	1,980	6,166	1,725	3,257	4,802	8,440	(2)	214	3,183	11,771
2444	Wooden boxes.....	50	18	1,474	4,493	1,267	2,397	3,385	6,592	13,350	147	2,006	7,971
2445	Cooperage.....	14	3	345	1,346	314	620	1,152	1,406	5,234	(D)	893	3,346
249	Miscellaneous wood products..	157	38	3,626	13,178	3,076	6,262	9,534	20,403	(2)	413	4,209	21,932
2493	Mirror and picture frames.....	38	15	2,146	8,015	1,832	3,776	5,933	11,642	20,149	137	1,866	7,920
2499	Wood products, n.e.c.....	107	17	1,073	3,808	895	1,799	2,546	6,066	12,394	204	1,390	6,742
25	Furniture and fixtures.....	656	245	27,363	110,591	22,347	44,207	78,300	179,575	(2)	7,125	29,193	141,142
251	Household furniture.....	377	165	19,488	77,594	16,049	31,787	56,042	123,221	(2)	4,659	20,358	94,761
2511	Wood furniture, not upholstered	156	66	6,410	23,862	5,575	11,067	18,388	34,887	63,544	803	8,086	35,099
2512	Upholstered household furniture	86	41	4,399	17,272	3,712	7,053	12,916	29,239	56,051	521	3,741	18,965
2514	Metal household furniture.....	71	36	4,802	19,596	3,746	7,522	13,669	33,174	71,937	1,177	4,679	22,190
252	Office furniture.....	14	7	1,260	5,431	994	1,916	3,742	8,591	(2)	(D)	1,490	7,443
2521	Wood office furniture.....	6	3	103	320	86	158	218	427	834	15	438	1,612
2522	Metal office furniture.....	8	4	1,157	5,111	908	1,758	3,523	8,163	14,439	(D)	1,052	5,831
253	Public and professional furniture.....	31	17	1,238	4,828	1,066	2,240	3,582	8,214	(2)	500	1,525	6,939
2531	Public-building furniture.....	21	12	947	3,637	824	1,765	2,775	6,254	11,931	441	1,406	6,320
2532	Professional furniture.....	10	5	291	1,191	242	475	806	1,959	2,968	58	119	619
2541	Partitions and fixtures.....	120	36	3,671	16,779	2,894	5,787	11,212	28,303	47,536	747	3,002	17,268
256	Screens, shades, and blinds..	104	17	1,397	4,814	1,065	1,925	2,819	9,234	(2)	(D)	1,918	10,011
2561	Window and door screens.....	22	8	470	1,863	356	611	939	4,109	8,087	(D)	456	2,619
2562	Window shades.....	26	3	503	1,693	393	725	1,097	2,804	8,148	15	581	4,383
2563	Venetian blinds.....	56	6	423	1,258	315	588	782	2,320	4,870	81	881	3,009
259	Furniture and fixtures, nec..	10	3	308	1,143	278	549	900	2,010	(2)	68	900	4,720
2599	Furniture and fixtures, n.e.c..	6	3	266	1,018	240	474	795	1,776	3,371	59	(D)	(D)
26	Pulp, paper and products...	406	237	30,760	129,232	24,541	50,001	89,266	229,403	(2)	11,182	28,129	158,113
261	Pulp, paper and board.....	29	25	3,967	18,126	3,381	7,172	14,127	39,749	(2)	2,078	4,061	26,499
2612	Paper and paper board mills....	14	14	3,084	14,203	2,607	5,592	10,828	30,844	64,760	1,543	(NA)	(NA)
2641	Paper coating and glazing....	21	13	1,902	8,658	1,328	2,671	5,117	17,417	41,704	(D)	(D)	(D)
2651	Envelopes.....	20	18	2,098	9,026	1,729	3,495	6,278	13,435	26,157	643	1,893	9,623
2661	Paper bags.....	35	15	1,902	7,693	1,535	3,132	5,156	13,132	33,716	(D)	1,259	6,487
267	Paperboard containers.....	167	105	13,830	57,667	11,067	22,399	40,224	100,152	(2)	4,741	11,467	68,331
2671	Paperboard boxes.....	155	98	13,003	54,391	10,349	20,941	37,609	94,727	226,036	4,453	10,656	(D)
2674	Fiber cans, tubes, drums, etc..	12	7	827	3,276	717	1,458	2,615	5,424	11,146	287	811	(D)
134	Pulp, paper and products, n.e.c.....	134	61	7,059	28,060	5,498	11,128	18,361	45,516	(2)	2,710	8,779	40,940
2693	Wallpaper.....	18	10	1,284	5,057	985	2,032	3,406	5,557	13,533	184	1,735	8,699
2699	Paper & board products, n.e.c..	73	38	4,543	18,419	3,512	7,056	11,945	32,932	66,515	2,048	5,886	27,019

See footnotes at end of table.

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establish- ments, number		All employees		Production workers			Value added by manufacture	Value of shipments	Capital expendi- tures, new	All employees, number	Value added by manufacture
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
27	Printing and publishing....	2,720	651	93,944	461,854	61,512	119,178	291,969	756,506	(2)	28,129	91,421	541,841
2711	Newspaper.....	500	98	19,642	94,839	10,275	18,265	50,341	144,078	219,016	5,488	16,758	105,570
2721	Periodicals.....	257	59	6,282	31,114	1,808	2,980	6,554	63,798	98,607	1,687	6,903	54,738
273	Books.....	131	45	7,623	32,227	2,052	3,988	8,772	88,994	(2)	2,270	6,765	48,861
2731	Books; publishing and printing.	88	31	5,887	23,199	600	1,169	1,939	76,393	124,337	1,591	6,353	46,088
2732	Book printing.....	43	14	1,735	9,028	1,452	2,819	6,833	12,601	19,903	678	412	2,773
2741	Miscellaneous publishing....	75	17	2,939	14,122	1,190	2,245	10,244	35,948	69,193	385	2,197	12,919
2751	Commercial printing.....	982	186	31,036	158,925	25,359	50,147	121,793	235,011	379,768	10,863	37,131	196,782
2761	Lithographing.....	308	99	11,550	59,263	9,048	17,940	41,614	87,929	150,177	4,363	7,228	46,277
2771	Greeting cards.....	32	12	2,653	7,780	1,810	3,609	4,843	12,674	21,042	147	3,091	12,601
278	Bookbinding and related in- dustries.....	146	53	5,145	18,896	4,437	8,634	14,257	27,772	(2)	1,094	5,063	20,963
2781	Bookbinding.....	64	28	2,542	9,310	2,294	4,420	7,654	12,905	19,181	560	2,450	10,090
2782	Blankbooks and paper ruling....	29	9	571	1,906	443	869	1,284	3,137	4,967	60	208	987
2783	Loose-leaf binders and devices.	21	6	1,269	4,995	1,045	2,136	3,498	7,555	12,195	167	1,575	6,343
2789	Miscellaneous bookbinding work.	32	10	761	2,684	654	1,208	1,820	4,173	5,972	304	830	3,543
279	Printing trade services.....	289	82	7,071	44,685	5,529	11,365	33,548	60,299	(2)	1,830	6,285	43,130
2791	Typesetting.....	125	25	1,961	11,986	1,604	3,164	9,119	15,919	17,730	631	1,424	9,710
2792	Engraving and plate printing...	58	5	621	2,804	488	1,026	1,926	4,230	5,709	172	644	3,034
2793	Photoengraving.....	79	38	2,930	19,733	2,169	4,648	14,471	25,078	28,591	678	2,543	18,921
2794	Electrotyping and stereotyping..	27	14	1,547	10,152	1,256	2,514	8,019	15,060	18,565	337	1,674	11,465
28	Chemicals and products.....	833	311	50,403	235,348	33,447	67,230	132,329	663,699	(2)	53,969	47,537	438,305
281	Inorganic chemicals.....	31	20	4,532	21,601	3,457	6,956	14,880	50,496	(2)	11,195	4,181	22,847
2811	Sulfuric acid.....	6	5	322	1,521	245	520	1,043	5,662	12,471	189	4,181	22,847
2819	Inorganic chemicals, n.e.c.....	25	15	4,210	20,080	3,212	6,436	13,837	44,833	102,732	11,006		
282	Organic chemicals.....	44	23	9,133	44,780	6,259	13,018	28,786	92,041	(2)	21,064	5,827	42,553
2823	Plastics materials.....	12	6	644	3,012	476	952	1,953	14,725	27,064	1,319	93	(D)
2826	Explosives.....	6	5	3,990	19,667	2,632	5,614	12,361	28,897	54,526	453	557	4,863
2829	Organic chemicals, n.e.c.....	19	5	1,342	6,577	948	2,019	4,274	12,850	32,144	(D)	(NA)	(NA)
283	Drugs and medicines.....	102	34	8,335	37,808	4,796	9,021	16,559	121,652	(2)	5,828	8,219	73,366
2831	Biological products.....	8	3	115	392	84	159	257	886	1,673	40	(D)	(D)
2833	Medicinal chem., inc. botanicals.	16	4	349	1,799	242	499	998	4,285	8,544	372	(D)	(D)
2834	Pharmaceutical preparations....	78	27	7,870	35,617	4,469	8,362	15,303	116,480	157,058	5,415	7,011	66,389
284	Soap and related products....	128	34	4,582	21,849	2,789	5,464	10,754	82,623	(2)	1,524	5,068	53,405
2841	Soap and glycerin.....	26	9	2,885	13,951	1,712	3,260	6,906	48,034	94,667	(D)	3,263	37,752
2842	Cleaning and polishing products	97	24	1,650	7,590	1,058	2,164	3,770	34,144	64,215	(D)	1,783	(D)
285	Paints and allied products...	161	76	8,849	42,737	5,646	11,333	22,252	101,652	(2)	2,988	8,529	76,489
2851	Paints and varnishes.....	139	67	7,734	37,900	4,816	9,695	19,146	93,642	225,818	2,608	7,059	64,938
2852	Inorganic color pigments.....	10	8	995	4,302	752	1,486	2,862	6,984	16,855	348	1,397	10,782
2853	Whiting and fillers.....	12	1	119	535	77	151	243	1,025	2,185	31	73	(D)
287	Fertilizers.....	30	16	1,729	6,978	1,344	2,681	5,086	18,928	(2)	2,588	1,572	11,284
2871	Fertilizers.....	17	14	1,577	6,476	1,218	2,435	4,700	17,393	59,801	2,323	(D)	(D)
2872	Fertilizers, mixing only.....	13	2	151	501	126	245	385	1,534	4,960	265	176	(D)
288	Vegetable and animal oils....	44	32	4,529	21,083	3,276	7,411	13,894	59,845	(2)	5,121	4,412	72,913
2883	Soybean oil mills.....	21	19	2,826	13,084	2,183	4,836	9,028	41,402	343,960	3,018	2,555	56,611
2886	Grease and tallow.....	18	8	840	3,549	589	1,393	2,409	8,804	23,491	356	1,599	14,050
289	Chemical products, n.e.c.....	288	75	8,666	38,285	5,852	11,291	20,045	136,121	(2)	3,652	9,678	85,202
2891	Printing ink.....	39	18	1,674	7,989	1,189	2,422	4,742	22,615	47,187	819	1,340	12,675
2893	Toilet preparations.....	76	22	2,919	10,933	2,118	4,056	6,200	61,455	94,912	852	3,539	28,352
2894	Glue and gelatin.....	29	10	1,001	4,476	697	1,240	2,508	9,011	19,582	230	1,073	7,984
2896	Compressed and liquefied gases.	19	6	520	2,450	298	628	1,423	10,144	12,358	461	356	(D)
2899	Chemical products, n.e.c.....	118	19	2,512	12,303	1,523	2,895	5,097	32,470	64,624	1,236	3,337	32,306
29	Petroleum and coal products	92	60	16,618	83,955	12,769	25,535	60,138	214,596	(2)	42,177	17,051	162,137
2911	Petroleum refining.....	16	13	10,065	53,649	7,638	14,924	38,786	159,342	750,875	38,393	9,307	101,871
295	Paving and roofing materials.	35	24	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2952	Roofing felts and coatings....	26	21	3,372	14,800	2,755	5,822	11,388	28,636	85,022	2,026	4,490	33,487
299	Petroleum and coal products, n.e.c.....	34	16	1,147	5,960	668	1,365	2,761	12,462	(2)	250	696	9,316
30	Rubber products.....	91	44	6,054	23,631	4,825	9,825	16,130	38,030	(2)	2,076	5,279	(D)
31	Leather and leather goods..	238	107	21,871	64,402	20,027	36,099	53,684	116,627	(2)	2,128	28,845	115,201
3111	Leather tanning & finishing..	27	15	2,815	12,302	2,560	5,274	10,072	18,650	45,290	448	3,902	28,180
3131	Footwear cut stock.....	14	4	270	812	241	440	623	1,275	3,845	(D)	840	4,458
314	Footwear, except rubber.....	61	46	15,604	41,199	14,483	24,995	35,264	77,623	(2)	469	19,265	61,527
3141	Footwear, except rubber.....	52	43	15,333	40,418	14,256	24,633	34,766	76,850	137,347	(D)	19,031	60,712
3142	House slippers.....	9	3	270	781	226	361	497	772	1,994	(D)	234	815

See footnotes at end of table.



## MANUFACTURES—AREA STATISTICS

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954										1947	
		Establish- ments, number		All employees		Production workers			Value added by manufacture	Value of shipments	Capital expendi- tures, new	All employees, number	Value added by manufacture
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
3161	Leather and leather goods—Continued Luggage.....	64	21	1,493	4,749	1,326	2,627	3,785	7,468	14,086	53	1,787	6,765
317	Purses and small leather goods.....	21	4	265	717	245	487	626	1,157	(2)	33	(D)	(D)
3171	Handbags and purses.....	8	1	104	318	95	195	272	506	918	(D)	227	(D)
3172	Small leather goods.....	13	3	161	399	149	291	354	651	1,522	(D)	133	402
319	Miscellaneous leather goods..	35	7	421	1,218	384	737	1,006	2,036	(2)	17	702	2,689
3199	Leather goods, n.e.c.....	29	6	346	1,033	316	605	849	1,725	3,015	17	562	2,162
32	Stone, clay and glass products.....	631	202	32,684	142,174	27,594	56,191	111,490	286,778	(2)	18,350	30,705	175,996
322	Pressed and blown glassware..	28	14	7,820	31,889	7,023	14,415	27,506	69,699	(2)	3,700	(D)	(D)
3221	Glass containers.....	7	7	7,279	30,217	6,547	13,447	26,159	66,961	106,447	3,631	7,054	40,601
3229	Pressed and blown glass, n.e.c.	21	7	541	1,671	476	967	1,346	2,738	5,159	69	(D)	(D)
3231	Products of purchased glass..	65	16	2,816	13,473	2,352	4,683	10,887	40,724	74,077	2,517	2,485	17,922
325	Structural clay products.....	46	37	3,266	13,723	2,779	5,571	10,620	21,171	(2)	847	3,426	15,865
3251	Brick and hollow tile.....	25	22	2,003	8,489	1,749	3,490	6,915	14,086	18,487	513	2,072	9,844
3255	Clay refractories.....	7	5	524	2,377	404	730	1,514	3,132	5,134	129	531	2,839
326	Pottery and related products.	28	17	2,790	9,334	2,456	4,806	7,800	12,130	(2)	973	2,978	12,179
3269	Pottery products, n.e.c.....	20	11	956	2,890	806	1,669	2,226	3,957	6,070	427	1,125	3,657
327	Concrete and plaster products	260	38	2,666	11,293	2,050	4,295	7,859	23,330	(2)	1,629	2,278	11,374
3271	Concrete products.....	245	32	2,247	9,530	1,682	3,511	6,413	18,825	32,514	1,334	1,869	8,893
3274	Lime.....	8	5	299	1,229	261	548	1,023	3,701	8,190	239	144	(D)
3281	Cut-stone and stone products.	48	12	889	3,977	690	1,402	2,748	6,469	10,709	145	474	2,642
329	Nonmetallic mineral products, n.e.c.....	151	63	9,962	43,966	7,989	16,017	30,864	80,041	(2)	6,926	9,462	54,410
3291	Abrasive products.....	45	21	1,515	6,128	1,218	2,430	4,089	15,196	26,283	1,885	1,599	11,402
3292	Asbestos products.....	10	7	3,089	14,054	2,480	4,954	10,619	29,707	66,711	2,359	2,934	16,826
3293	Gaskets & asbestos insulations.	40	19	3,991	18,476	3,130	6,527	12,278	26,573	42,291	1,601	3,089	17,325
3295	Minerals; ground or treated....	20	9	413	1,927	313	646	1,115	2,843	4,782	1,002	413	2,022
3298	Statuary and art goods.....	31	4	352	1,366	289	616	1,023	1,892	2,812	42	546	2,404
33	Primary metal industries...	533	309	92,716	433,435	76,121	147,935	326,800	817,646	(2)	55,190	101,334	556,338
331	Blast furnaces and steel mills.....	24	24	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3312	Blast furnaces and steel mills.	22	22	38,076	180,647	31,950	60,403	140,737	398,439	(2)	27,290	36,619	205,187
332	Iron and steel foundries.....	150	107	20,105	85,476	16,775	31,239	64,622	125,853	(2)	6,823	25,873	114,355
3321	Gray-iron foundries.....	118	79	7,750	31,928	6,744	13,041	25,493	44,981	80,453	2,704	11,355	49,786
3322	Malleable-iron foundries.....	11	11	5,424	23,342	4,672	8,966	18,697	35,799	57,449	2,281	4,881	19,146
3323	Steel foundries.....	21	17	6,930	30,205	5,358	9,231	20,431	45,072	62,520	1,837	9,637	45,423
333	Primary nonferrous metals....	6	5	1,718	7,008	1,432	2,962	6,034	14,695	(2)	940	2,951	14,284
335	Nonferrous rolling and drawing.....	20	17	6,858	33,492	5,114	10,776	22,732	63,576	(2)	8,732	6,948	41,609
3351	Copper rolling and drawing.....	4	3	2,894	14,976	1,962	4,252	8,863	28,901	71,301	5,588	4,317	26,935
3361	Nonferrous foundries.....	189	69	8,671	39,638	7,110	14,220	29,621	56,354	100,073	2,367	9,087	45,283
339	Primary metal industries, n.e.c.....	98	60	13,065	67,666	10,404	21,512	50,225	120,872	(2)	6,798	16,657	114,443
3391	Iron and steel forgings.....	35	25	5,637	31,061	4,626	9,506	23,741	45,630	89,402	2,211	6,701	44,324
3392	Wire drawing.....	22	15	4,852	24,178	3,715	7,691	17,828	50,148	156,032	2,659	6,526	47,270
3393	Welded and heavy-riveted pipe..	4	3	531	2,654	466	972	1,956	6,561	11,474	689	836	6,035
3399	Primary metal industries, nec..	37	17	2,044	9,773	1,596	3,342	6,698	18,532	45,290	1,238	2,594	16,814
34	Fabricated metal products...	2,254	844	118,663	534,755	96,038	195,949	386,399	934,353	(2)	48,215	115,129	616,379
3411	Tin cans and other tinware...	29	26	13,456	60,562	11,708	23,509	50,020	106,813	272,903	6,493	12,082	60,883
342	Cutlery, tools, and hardware.	196	81	14,378	61,017	11,371	23,100	43,583	113,387	(2)	7,144	16,941	87,078
3422	Edge tools.....	16	6	659	3,057	457	898	1,908	5,704	8,577	342	460	2,434
3423	Hand tools, n.e.c.....	50	25	3,123	13,565	2,370	4,687	8,828	21,636	33,897	1,951	5,414	29,781
3425	Hand saws and saw blades.....	13	3	324	1,457	259	536	1,068	3,207	4,497	61	276	1,197
3429	Hardware, n.e.c.....	107	47	10,189	42,625	8,215	16,845	31,541	82,321	128,192	4,779	10,677	53,193
343	Heating and plumbing equip- ment.....	114	64	12,458	55,858	9,680	19,020	38,774	103,564	(2)	(D)	15,796	83,668
3431	Plumbing fixtures and fittings.	29	14	1,396	6,426	1,134	2,329	4,500	11,875	22,912	285	1,516	8,419
3439	Heating and cooking equip., nec	85	50	11,062	49,431	8,546	16,691	34,273	91,688	179,284	(D)	14,280	75,249
344	Structural metal products....	486	159	16,516	81,799	12,531	25,926	54,566	149,146	(2)	8,109	12,397	77,854
3441	Structural & ornamental work...	188	65	6,564	32,414	4,794	10,066	20,762	57,181	112,529	3,181	5,042	33,812
3442	Metal doors, sash, and trim....	82	23	2,904	12,676	2,217	4,310	8,550	26,522	47,145	2,062	2,033	11,505
3443	Boiler shop products.....	63	34	3,186	18,301	2,339	4,935	11,618	27,700	54,898	1,722	2,989	19,555
3444	Sheet-metal work.....	153	37	3,861	18,407	3,179	6,613	13,635	37,742	88,239	1,142	2,333	12,982

See footnotes at end of table.



Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954										1947	
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
346	Fabricated metal products—Continued												
3463	Metal stamping and coating...	685	233	25,258	111,995	20,988	43,029	81,567	181,656	(2)	7,650	22,560	110,726
3465	Metal stampings.....	324	132	18,187	83,368	14,873	30,783	60,030	138,240	256,428	5,505	15,734	78,084
3465	Enameling and lacquering.....	51	19	1,135	4,324	1,003	1,993	3,324	6,872	10,099	328	1,141	4,841
3466	Galvanizing.....	18	4	338	1,468	307	627	1,157	2,628	4,469	225	390	2,438
3468	Plating and polishing.....	266	71	4,820	19,527	4,162	8,349	14,694	29,346	41,002	1,420	4,177	20,078
3471	Lighting fixtures.....	158	61	6,030	24,788	4,674	9,420	16,146	45,686	87,943	(D)	8,332	42,389
348	Fabricated wire products.....	153	73	9,163	39,211	7,843	16,128	30,074	62,410	(2)	2,035	9,086	42,247
3481	Nails and spikes.....	16	9	747	3,232	623	1,398	2,361	5,922	9,598	151	389	1,836
3489	Wirework, n.e.c.....	137	64	8,416	35,979	7,220	14,729	27,713	56,488	106,745	1,884	8,697	40,411
349	Metal products, n.e.c.....	433	147	21,402	99,523	17,239	35,813	71,664	171,689	(2)	10,705	17,935	111,534
3491	Metal barrels, drums, & pails..	11	9	1,452	7,400	1,140	2,504	5,123	12,305	29,905	777	1,369	8,683
3493	Steel springs.....	11	8	730	3,537	591	1,167	2,420	5,640	11,648	(D)	1,288	8,220
3494	Bolts, nuts, washers, & rivets.	72	44	10,796	52,147	8,523	17,970	37,447	85,362	142,683	5,206	8,197	52,574
3495	Screw machine products.....	233	59	4,988	22,666	4,250	8,888	16,859	37,857	58,998	2,052	5,738	33,332
3499	Fabricated metal prod., n.e.c..	100	24	3,177	12,858	2,519	4,819	9,125	28,824	47,933	2,245	1,199	8,203
35	Machinery, except electrical.....	2,312	785	202,167	957,953	151,782	306,636	655,841	1,649,787	(2)	86,903	218,096	1,097,751
351	Engines and turbines.....	11	7	7,171	34,756	5,062	9,996	23,055	44,489	108,483	3,533	10,230	35,458
3519	Internal combustion engines....	11	7	7,171	34,756	5,062	9,996	23,055	44,489	108,483	3,533	10,230	35,458
352	Tractors and farm machinery..	103	65	55,066	245,749	42,829	82,895	179,604	440,383	(2)	32,182	68,866	289,371
3521	Tractors.....	15	13	33,538	148,133	26,443	51,441	110,498	291,263	655,136	24,178	39,457	168,844
3522	Farm machinery (exc. tractors)..	88	52	21,528	97,616	16,385	31,453	69,105	149,120	308,440	8,003	29,409	120,527
353	Construction and mining machinery.....	69	40	12,175	57,062	8,853	17,424	37,345	94,381	(2)	3,445	9,678	55,818
3531	Construction and mining mach...	62	37	11,953	56,009	8,671	17,048	36,548	92,632	177,189	3,368	9,613	(D)
3532	Oil-field machinery and tools..	7	3	221	1,053	181	376	796	1,749	2,785	76	(D)	(D)
354	Metalworking machinery.....	636	173	28,784	152,138	21,337	46,724	104,374	254,642	(2)	12,552	23,928	146,125
3541	Machine tools.....	59	30	7,630	41,691	5,557	12,775	27,741	81,063	121,466	4,346	4,244	25,889
3542	Metalworking machinery.....	76	40	11,558	60,300	8,232	18,129	40,404	97,202	178,311	3,349	8,241	60,510
3544	Special dies and tools.....	410	74	5,164	29,277	4,370	9,489	22,653	44,829	56,677	3,363	11,443	59,726
3545	Metalworking mach. attachments.	91	29	4,430	20,869	3,176	6,330	13,576	31,547	44,847	1,203		
355	Special-industry machinery, n.e.c.....	251	102	15,086	78,786	10,865	23,343	51,154	129,762	(2)	4,642	17,064	93,278
3551	Food-products machinery.....	87	45	5,913	28,689	4,317	9,302	18,957	48,436	74,904	1,008	5,788	28,544
3552	Textile machinery.....	6	3	920	4,868	545	1,285	2,731	7,788	10,183	(D)	987	(D)
3553	Woodworking machinery.....	14	5	691	2,872	580	1,377	2,132	6,751	10,462	(D)	1,388	9,120
3555	Printing-trades machinery.....	56	18	4,947	28,246	3,679	7,753	19,411	45,689	65,069	1,624	5,025	27,485
3559	Special-industry mach., n.e.c..	83	29	2,546	13,784	1,688	3,511	7,688	20,621	39,116	1,383	3,782	21,814
356	General industrial machinery.	297	137	23,696	115,765	16,389	34,483	70,744	216,975	(2)	8,554	24,936	144,476
3561	Pumps and compressors.....	53	25	6,809	32,197	4,578	9,594	19,746	61,222	104,990	2,819	6,640	38,394
3563	Conveyors.....	41	20	4,557	23,739	3,038	6,625	13,643	49,043	72,976	1,068	4,697	26,550
3564	Blowers and fans.....	16	8	1,105	4,490	839	1,729	3,002	8,160	15,243	635	1,128	6,607
3565	Industrial trucks and tractors.	27	10	1,879	8,391	1,259	2,459	5,079	16,173	27,541	1,252	2,313	14,542
3566	Power-transmission equipment...	62	34	5,547	28,088	4,301	9,076	19,229	45,775	73,826	1,785	5,460	30,835
3567	Industrial furnaces and ovens..	20	10	1,184	6,488	582	1,279	2,484	11,122	19,821	238	1,041	6,860
3569	General industrial mach., nec..	56	23	1,984	9,585	1,390	2,869	5,963	20,124	33,668	650	2,595	15,644
357	Office and store machines....	80	48	10,329	44,920	7,884	15,995	29,640	82,782	(2)	2,875	11,628	61,323
3571	Computing and related machines.	8	4	1,819	8,908	1,148	2,272	4,598	18,600	26,633	218	2,372	(D)
3572	Typewriters.....	3	3	451	1,448	412	728	1,241	2,414	3,026	80	738	(D)
3576	Scales and balances.....	11	9	907	3,710	751	1,504	2,610	8,205	12,631	323	1,114	5,777
3579	Office & store machines, n.e.c..	58	32	7,151	30,853	5,571	11,490	21,190	53,561	88,370	2,253	7,404	17,141
358	Service and household machines.....	140	68	19,199	84,694	14,784	29,133	57,492	168,426	(2)	8,479	24,131	129,926
3581	Domestic laundry equipment....	11	9	5,337	21,085	4,362	8,246	15,527	33,509	99,553	4,056	7,613	41,238
3582	Laundry & dry-cleaning mach....	21	9	1,080	5,101	660	1,357	2,718	8,888	14,434	159	1,568	8,728
3584	Vacuum cleaners.....	9	4	2,089	9,316	1,685	3,506	6,633	15,493	28,942	(D)	3,009	(D)
3585	Refrigeration machinery.....	56	28	6,725	30,699	5,406	10,673	22,150	74,713	(2)	2,297	5,462	23,213
3589	Service & household mach., nec.	33	12	1,581	7,502	983	1,950	3,716	13,688	26,064	450	2,026	12,985
359	Miscellaneous machine parts..	725	145	30,656	144,080	23,776	46,639	102,429	217,943	(2)	10,639	27,635	141,956
3591	Valves & fittings, exc. plbg...	52	28	17,501	82,020	13,697	25,684	59,603	118,365	200,726	4,326	18,098	94,322
3592	Fabricated pipe and fittings...	17	11	615	2,424	499	1,085	1,799	3,933	8,220	125	1,380	(D)
3593	Ball and roller bearing.....	9	7	2,014	9,191	1,598	3,182	6,754	15,436	24,070	991	2,359	11,475
3594	Industrial patterns and molds..	189	26	2,058	10,595	1,756	3,659	8,433	16,372	20,782	877	(D)	(D)
3599	Machine shops.....	458	73	8,466	39,849	6,224	13,028	25,838	63,835	93,376	4,319	4,833	23,748

See footnoted at end of table.

## MANUFACTURES—AREA STATISTICS

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establish- ments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
36	Electrical machinery.....	744	395	138,118	569,066	105,638	204,308	379,182	1,019,979	(2)	45,985	129,841	675,767
361	Electrical industrial appa- ratus.....	231	128	29,359	121,389	22,466	44,599	80,234	216,153	(2)	13,974	25,842	124,647
3611	Wiring devices and supplies....	47	27	5,172	21,412	4,182	8,059	15,187	44,028	80,072	1,714	5,784	40,662
3613	Elec. measuring instruments....	22	10	4,711	19,995	3,468	6,713	12,667	33,194	46,118	1,538	4,039	18,452
3614	Motors and generators.....	32	21	4,036	16,396	3,244	6,488	12,072	29,327	46,136	1,068	(D)	(D)
3615	Transformers.....	23	16	4,326	15,832	3,499	6,961	11,027	27,539	59,052	1,607	3,715	12,870
3616	Electrical control apparatus...	60	37	8,703	37,973	6,262	12,895	23,377	66,290	103,434	7,639	5,583	28,728
3619	Elec. industrial apparatus, nec	29	11	1,479	5,434	1,190	2,266	3,571	9,608	14,528	256	2,572	8,367
3621	Electrical appliances.....	56	24	12,415	55,901	10,071	19,656	40,889	109,859	208,802	5,320	11,650	76,444
3631	Insulated wire and cable.....	13	7	1,038	3,892	864	1,612	2,639	6,189	15,799	227	(D)	(D)
366	Communication equipment.....	337	195	88,608	361,707	67,106	128,530	238,060	632,052	(2)	24,746	83,690	428,791
3661	Radios and related products....	285	169	55,567	205,814	44,947	86,018	143,130	414,659	(2)	12,809	43,058	180,779
3662	Electronic tubes.....	13	10	2,325	7,924	1,890	3,703	5,500	11,402	25,853	658	166	(D)
3664	Telephone & telegraph equip....	14	12	30,030	144,691	19,783	37,807	87,502	200,736	288,376	11,215	38,980	(D)
3669	Communication equipment, n.e.c.	21	4	673	3,234	475	985	1,903	5,146	8,873	(D)	1,007	(D)
369	Electrical products, n.e.c....	85	29	3,630	13,612	2,852	5,440	9,205	30,622	(2)	885	4,585	31,044
3691	Storage batteries.....	24	8	1,045	4,166	809	1,554	3,028	12,801	27,483	295	647	5,851
3692	Primary batteries.....	5	4	1,170	3,717	954	1,811	2,645	8,021	13,968	(D)	680	(D)
37	Transportation equipment...	269	136	50,986	253,735	38,371	78,920	171,775	475,528	(2)	57,981	46,227	253,413
371	Motor vehicles and equipment.	183	90	18,798	92,591	14,977	31,605	67,478	182,761	(2)	50,279	19,193	118,832
3713	Truck and bus bodies.....	31	11	1,038	4,687	819	1,734	3,041	7,061	15,300	424	2,462	10,864
3715	Truck trailers.....	7	7	759	3,476	588	1,208	2,465	5,124	14,818	134	585	(D)
3716	Automobile trailers.....	19	10	532	2,179	453	873	1,731	3,860	11,734	55	1,488	9,853
3717	Motor vehicles and parts.....	126	62	16,467	82,248	13,115	27,789	60,240	166,715	(2)	49,664	(D)	(D)
372	Aircraft and parts.....	34	25	18,712	97,377	12,952	26,605	60,170	143,349	(2)	2,917	(D)	(D)
3722	Aircraft engines.....	11	9	14,008	73,205	9,319	18,450	42,829	105,515	358,524	1,976	(D)	(D)
373	Ships and boats.....	21	6	646	2,852	571	1,191	2,410	4,840	(2)	201	389	(D)
374	Railroad equipment.....	20	11	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3742	Railroad and street cars.....	15	8	4,057	17,992	3,175	6,255	11,904	35,685	63,805	3,376	10,269	(D)
38	Instruments and related products.....	320	128	31,879	130,000	23,606	46,888	85,961	234,404	(2)	6,327	31,163	145,195
3811	Scientific instruments.....	30	15	2,118	9,522	1,421	3,121	5,821	14,104	22,672	624	2,256	9,483
3821	Mech. measuring instruments..	56	18	6,828	30,634	4,614	9,315	17,937	58,102	84,893	1,395	6,694	30,529
3831	Optical instruments & lenses.	19	9	909	3,835	741	1,487	2,829	5,189	6,937	164	782	3,057
384	Medical equipment and sup- plies.....	104	31	5,763	22,495	4,185	7,730	14,280	44,062	(2)	1,309	5,836	32,299
3841	Surgical & medical instruments.	17	4	310	1,181	225	420	671	1,573	2,184	22	492	(D)
3842	Surgical appliances & supplies.	62	18	4,796	18,684	3,492	6,422	12,121	38,816	77,565	1,261	4,553	27,386
3843	Dental equipment and supplies..	25	9	657	2,629	466	888	1,487	3,672	5,388	25	791	(D)
3851	Ophthalmic goods.....	11	4	227	846	158	304	507	1,429	2,509	48	313	1,264
3861	Photographic equipment.....	80	38	7,998	32,202	5,947	12,303	22,621	63,190	112,289	1,622	6,868	36,197
387	Watches and clocks.....	20	13	8,033	30,465	6,538	12,625	21,963	48,324	75,199	1,162	8,414	32,366
3871	Watches and clocks.....	20	13	8,033	30,465	6,538	12,625	21,963	48,324	75,199	1,162	8,414	32,366
39	Miscellaneous manufactures <sup>5</sup>	1,178	396	49,577	190,942	38,980	76,884	131,231	339,335	(2)	10,142	41,354	197,012
391	Jewelry and silverware.....	73	12	1,412	6,004	1,059	2,123	3,795	9,162	(2)	200	1,086	5,704
3911	Jewelry (precious metal).....	49	7	639	2,875	464	937	1,741	4,716	9,777	118	640	3,748
3914	Silverware and plated ware.....	11	5	724	2,989	555	1,116	1,940	4,207	5,847	82	423	1,779
393	Musical instruments and parts	46	24	3,634	14,758	3,208	6,719	12,343	31,178	(2)	465	4,284	19,872
3931	Pianos.....	6	5	1,328	5,722	1,085	2,135	4,421	9,803	19,071	183	1,980	8,355
3933	Piano and organ parts.....	7	6	1,180	4,798	1,120	2,459	4,423	14,856	19,417	96	1,156	5,980
394	Toys and sporting goods.....	162	61	5,646	19,881	4,853	9,285	14,587	36,311	(2)	1,252	5,247	25,633
3941	Games and toys, n.e.c.....	73	30	2,730	9,389	2,336	4,417	6,408	17,433	30,780	742	2,212	(D)
3949	Sporting and athletic goods....	81	27	2,344	8,057	1,991	3,855	6,241	14,799	29,101	396	2,524	12,120
395	Official supplies.....	74	25	2,382	9,968	1,607	3,276	5,491	16,722	(2)	415	4,240	24,342
3953	Hand stamps and stencils.....	41	12	871	3,979	628	1,252	2,385	5,403	8,185	144	596	2,649
3955	Carbon paper & inked ribbons...	9	5	506	1,890	368	790	1,214	4,848	8,573	78	362	3,121
396	Costume jewelry and notions..	78	23	2,109	6,547	1,829	3,295	4,593	10,806	(2)	173	3,861	17,134
3962	Artificial flowers.....	27	8	459	1,315	393	641	862	2,185	3,148	11	372	1,414
3964	Needles, pins and fasteners....	12	6	828	2,648	715	1,280	1,779	4,474	6,915	104	1,389	6,823
3971	Plastics products, n.e.c.....	244	98	11,674	46,830	9,738	19,666	34,358	77,043	151,363	4,389	6,695	32,205

See footnotes at end of table.



Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954										1947	
		Establish- ments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
398 399	Miscellaneous manu- factures <sup>5</sup> —Continued	501	153	22,717	86,952	16,683	32,516	56,062	158,113	( <sup>2</sup> )	3,246	15,941	72,122
3981	Brooms and brushes.....	55	18	1,320	4,179	1,115	2,196	2,982	6,847	14,342	244	1,505	7,725
3986	Jewelry and instrument cases...	12	4	974	3,087	568	1,046	1,788	4,603	6,141	106	694	2,599
3987	Lamp shades.....	40	9	977	2,475	872	1,554	1,962	4,090	7,460	76	931	3,064
3988	Morticians' goods.....	45	22	1,552	5,941	1,203	2,350	4,076	9,387	16,095	180	1,730	8,453
3991	Beauty & barber-shop equipment.	12	2	389	1,728	328	754	1,203	2,912	4,983	75	787	3,247
3993	Signs and advertising displays.	214	43	4,547	19,873	3,618	7,095	13,129	30,716	52,734	956	3,545	17,573
3997	Soda-fountain & bar equipment..	3	2	100	451	77	152	325	670	1,304	(D)	899	5,476
3999	Miscellaneous products, n.e.c..	60	18	1,484	5,321	1,131	2,116	3,213	10,148	20,810	235	1,617	7,762
1900	Ordinance and accessories.....	30	28	10,509	40,450	7,122	13,960	25,170	83,138	( <sup>2</sup> )	1,107	(D)	(D)

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industries (4-digit) and industry groups (3-digit) are not shown. Industries and industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "all industries" line.

<sup>2</sup>The total value of shipments figures for industry groups and a few individual industries have not been published due to the extensive and unmeasurable duplication arising from shipments from one establishment to another in the same industry classification. (See Introduction.)

<sup>3</sup>The 1954 and 1947 "all industries" totals are not strictly comparable because of differences in scope between the two years in major groups 20 and 24 (see footnote 4).

<sup>4</sup>Comparable data for Major Groups 20 and 24 are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude establishments in S.I.C. Industry 2411, Logging Camps and Contractors, which are included in the scope of the 1954 Census; the 1947 Census also excludes plants processing and distributing fluid milk which in 1954 are classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
20	Food and kindred products except sub- group 202, Dairy products.....	126,000	1,188,000	132,083	964,928
24	Lumber and wood products except Industry 2411, Logging camps and contractors.....	12,439	68,803	12,962	57,351

<sup>5</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordinance and Accessories." (Establishments which are Government-owned and operated are not included.)



## MANUFACTURES—AREA STATISTICS

Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947  
(For explanation of column captions see Introduction)

Code	Industry group	Establish- ments, number	1954							1947	
			All employees		Production workers			Value added by manufacture	Capital expendi- tures, new	All employees, number	Value added by manufacture
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
CHICAGO STANDARD METROPOLITAN AREA (Consists of Cook, Du Page, Kane, Lake, and Will Counties, Illinois; and Lake County, Indiana)											
	All industries, total <sup>1</sup> ....	13,456	942,819	4,256,393	718,642	1,419,044	2,897,563	7,893,423	427,396	<sup>2</sup> 946,041	<sup>2</sup> 5,529,227
20	Food and kindred products....	1,248	101,689	435,350	75,402	153,688	286,193	964,249	46,226	( <sup>3</sup> )	( <sup>3</sup> )
201	Meat products.....	181	28,509	128,745	22,953	48,021	97,328	164,062	10,698	31,519	148,906
202	Dairy products.....	174	7,441	36,404	4,761	9,567	19,596	91,313	3,873	( <sup>3</sup> )	( <sup>3</sup> )
203	Canned and frozen foods.....	99	7,193	28,640	5,768	11,193	19,682	73,040	2,712	7,283	51,883
204	Grain mill products.....	54	3,777	17,220	2,741	5,480	10,557	56,097	1,107	3,127	35,634
205	Bakery products.....	247	18,526	78,770	12,434	27,271	48,421	154,742	4,523	15,971	82,414
207	Candy and related products.....	121	15,310	54,462	12,239	24,298	38,123	156,981	5,155	17,125	152,985
209	Miscellaneous foods.....	269	15,279	63,441	11,581	22,016	40,027	205,964	12,544	14,731	163,834
21	Tobacco manufactures.....	25	553	(D)	494	(D)	(D)	(D)	(D)	739	(D)
22	Textile mill products.....	97	7,327	28,436	5,881	11,752	18,953	48,810	1,918	8,775	47,125
225	Knitting mills.....	18	1,000	2,700	876	1,533	1,955	4,006	186	1,385	4,839
229	Miscellaneous textile goods.....	41	3,707	16,224	2,915	6,220	10,384	29,322	1,552	4,254	26,551
23	Apparel and related products.	1,085	38,230	121,752	32,141	55,710	85,667	195,103	2,581	48,134	222,905
231	Men's and boys' suits and coats.	89	9,740	31,673	8,019	13,169	22,736	43,893	267	12,335	57,675
232	Men's and boys' furnishings....	141	4,129	11,871	3,667	6,362	8,829	18,351	213	5,151	19,900
233	Women's and misses' outerwear...	265	10,238	32,833	8,941	14,943	24,903	52,512	469	14,476	64,089
234	Women's undergarments.....	48	3,586	13,124	2,842	5,007	7,392	26,019	246	4,722	27,243
235	Millinery.....	42	1,138	3,900	1,003	1,805	2,999	5,732	21	1,681	7,141
238	Miscellaneous apparel.....	57	1,934	5,582	1,613	2,940	3,855	9,157	66	(D)	(D)
239	Fabricated textiles, n.e.c.....	365	6,618	20,575	5,355	10,258	13,297	34,839	1,263	6,638	31,554
24	Lumber and wood products.....	366	7,752	31,412	6,249	12,413	21,864	46,929	1,117	7,332	35,257
243	Millwork and related products...	182	3,151	14,514	2,288	4,419	9,365	20,796	672	2,158	11,332
244	Wooden containers.....	47	1,164	3,780	1,037	1,977	3,010	6,100	95	1,805	8,303
249	Miscellaneous wood products.....	124	3,158	11,916	2,677	5,465	8,590	18,345	312	3,269	15,163
25	Furniture and fixtures.....	566	22,564	93,763	18,323	36,490	65,603	150,931	5,914	22,743	111,102
251	Household furniture.....	322	15,856	65,068	13,009	26,150	46,723	102,696	4,087	14,749	69,429
252	Office furniture.....	12	1,086	4,712	849	1,647	3,179	7,394	(D)	1,490	7,443
254	Partitions and fixtures.....	111	3,157	14,775	2,455	4,855	9,637	25,034	657	2,547	15,458
256	Screens, shades, and blinds.....	86	1,237	4,379	944	1,677	2,493	8,079	(D)	1,746	8,402
26	Pulp, paper and products....	343	24,108	100,432	19,105	38,530	68,188	178,456	8,481	22,169	122,656
261	Pulp, paper and board.....	12	1,261	5,374	1,093	2,298	4,543	13,870	363	1,339	8,408
267	Paperboard containers.....	147	11,581	48,006	9,190	18,363	32,841	82,081	3,855	9,773	59,413
269	Pulp, paper and products, n.e.c..	113	5,969	23,928	4,738	9,638	16,030	42,156	2,650	7,661	34,796
27	Printing and publishing.....	2,032	81,698	413,951	53,484	103,372	261,472	677,109	24,389	82,470	498,878
271	Newspapers.....	157	14,069	74,015	7,471	12,804	39,743	107,757	4,477	11,838	81,383
272	Periodicals.....	226	5,983	30,061	1,722	2,815	6,275	61,412	1,636	6,639	53,360
273	Books.....	114	7,871	33,411	2,342	4,346	10,114	90,474	2,307	7,398	52,210
275	Commercial printing.....	787	26,825	140,924	21,821	43,252	107,384	208,122	8,877	34,271	183,398
276	Lithographing.....	272	10,234	54,349	8,016	15,945	38,049	79,848	4,054	6,498	42,604
278	Bookbinding and related indus- tries.....	129	4,783	17,949	4,129	8,031	13,588	26,375	882	4,838	20,100
279	Printing trade services.....	254	6,587	42,050	5,162	10,635	31,672	55,642	1,657	6,000	41,395
28	Chemicals and products.....	687	37,658	180,439	24,405	48,544	97,418	516,809	26,732	39,031	390,369
281	Inorganic chemicals.....	23	3,045	15,419	2,322	4,703	10,321	45,560	9,486	(D)	(D)
282	Organic chemicals.....	28	4,984	24,759	3,327	6,909	15,892	46,136	2,691	3,129	27,555
283	Drugs and medicines.....	76	6,128	28,640	3,601	6,760	12,545	100,327	3,991	7,061	67,922
284	Soap and related products.....	118	5,415	26,406	3,295	6,525	13,577	83,772	1,445	6,040	81,386
285	Paints and allied products.....	139	7,265	35,810	4,606	9,177	18,182	87,938	2,466	7,494	67,485
288	Vegetable and animal oils.....	15	1,896	9,322	1,187	2,651	5,366	26,117	1,953	2,246	33,162
289	Chemical products, n.e.c.....	275	8,318	37,486	5,599	10,820	19,706	120,731	3,953	9,412	83,546
29	Petroleum and coal products..	78	21,759	111,248	16,825	33,220	80,912	233,900	58,861	23,327	181,044
291	Petroleum refining.....	11	12,421	67,383	9,347	18,113	48,756	149,181	42,709	12,772	102,868
295	Paving and roofing materials....	27	3,214	14,604	2,555	5,498	10,736	27,441	2,067	3,822	29,087
30	Rubber products.....	79	4,543	(D)	3,562	(D)	(D)	(D)	(D)	3,344	(D)
309	Rubber industries, n.e.c.....	79	4,543	(D)	3,562	(D)	(D)	(D)	(D)	3,344	(D)
31	Leather and leather goods....	189	9,483	35,330	8,333	15,983	26,898	57,234	1,467	12,914	65,804
311	Leather tanning and finishing...	25	2,326	10,606	2,112	4,440	8,544	16,303	448	(D)	(D)
314	Footwear, except rubber.....	25	4,172	14,952	3,664	6,487	10,965	22,541	133	5,250	21,229
315	Leather gloves.....	9	190	472	178	298	417	710	5	(D)	(D)
317	Purses and small leather goods..	21	265	717	245	487	626	1,157	33	(D)	(D)
319	Miscellaneous leather goods.....	31	348	1,041	318	607	850	1,755	17	575	2,154
32	Stone, clay, and glass products	407	18,256	79,569	14,709	29,529	57,167	148,501	10,062	17,032	93,650
322	Pressed and blown glassware....	20	734	2,466	644	1,316	2,014	3,591	80	778	2,285
325	Structural clay products.....	13	1,210	4,948	1,013	1,831	3,746	7,369	284	1,081	6,020
326	Pottery and related products....	17	595	2,117	471	949	1,526	3,041	390	1,041	5,557
327	Concrete and plaster products...	116	2,326	10,957	1,816	3,934	7,729	22,838	1,188	1,607	9,595
328	Cut-stone and stone products....	37	822	3,801	637	1,307	2,605	6,165	91	(D)	(D)
329	Nonmetallic mineral products, n.e.c.....	142	9,979	44,709	8,010	16,023	31,515	82,668	7,109	9,233	54,165

See footnotes at end of table.

Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947  
(For explanation of column captions see Introduction)

Code	Industry group	Establishments, number	1954						1947		
			All employees		Production workers			Value added by manufacture	Capital expenditures, new	All employees, number	Value added by manufacture
			Number	Payroll (\$1,000)	Number	Man-hours ((1,000)	Wages (\$1,000)				
CHICAGO STANDARD METROPOLITAN AREA—Continued											
33	Primary metal industries.....	385	117,700	562,935	97,025	186,386	431,334	1,103,680	72,272	117,815	678,036
331	Blast furnaces and steel mills....	25	77,365	368,810	64,214	120,908	287,406	781,652	52,835	73,848	423,568
332	Iron and steel foundries.....	80	12,156	53,411	10,270	19,232	41,304	76,927	4,391	14,379	63,627
334	Secondary nonferrous metals.....	45	3,428	16,806	2,622	5,409	10,320	29,996	3,871	3,437	26,127
335	Nonferrous rolling and drawing..	16	3,988	19,473	3,182	6,564	14,364	41,781	1,988	(D)	(D)
339	Primary metal industries, n.e.c.	86	13,847	72,522	11,136	23,046	54,542	128,040	7,312	16,297	112,826
34	Fabricated metal products....	1,924	95,610	439,535	77,200	156,798	316,023	750,817	36,476	89,090	487,201
341	Tin cans and other tinware.....	23	12,158	54,990	10,597	21,213	45,707	96,902	5,125	10,657	54,477
342	Cutlery, tools and hardware....	151	6,715	29,779	5,112	10,102	19,353	54,171	3,761	8,314	45,000
343	Heating and plumbing equipment..	75	4,729	22,885	3,595	7,277	15,326	39,833	(D)	4,822	29,978
344	Structural metal products.....	396	17,411	85,718	13,213	26,805	58,251	153,821	6,731	13,319	81,543
346	Metal stamping and coating.....	601	23,563	107,060	19,513	39,955	77,725	171,174	7,278	19,911	101,014
347	Lighting fixtures.....	155	5,808	23,848	4,489	9,032	15,526	43,342	(D)	7,697	39,706
348	Fabricated wire products.....	132	7,757	33,695	6,667	13,724	25,765	52,430	1,619	7,542	36,374
349	Metal products.....	391	17,467	81,557	14,010	28,687	58,367	139,141	8,626	16,828	99,109
35	Machinery, except electrical.	1,778	124,975	613,546	92,005	187,498	406,696	1,019,306	48,840	134,054	700,217
351	Engines and turbines.....	6	5,888	29,355	4,092	7,918	19,001	37,832	3,188	8,571	28,238
352	Tractors and farm machinery....	26	11,868	54,808	8,761	16,618	37,265	87,448	6,575	18,872	75,422
353	Construction and mining machinery	41	9,152	42,165	6,569	12,789	26,973	71,020	2,576	6,613	35,396
354	Metalworking machinery.....	503	20,432	106,650	15,103	32,288	72,857	169,619	7,724	18,464	113,432
355	Special-industry machinery,n.e.c.	219	12,861	68,332	9,387	20,094	44,834	112,651	4,037	14,062	76,274
356	General industrial machinery....	242	18,346	92,608	12,619	26,801	55,811	171,254	6,542	18,304	110,101
357	Office and store machines.....	70	9,285	41,224	7,033	14,433	26,914	74,927	2,606	10,252	54,392
358	Service and household machines..	106	11,725	54,717	8,807	17,758	35,563	105,998	6,351	15,627	82,107
359	Miscellaneous machinery parts...	565	25,415	123,684	19,629	38,796	87,475	188,553	9,238	23,289	124,855
36	Electrical machinery.....	647	117,632	496,262	88,786	171,359	325,534	861,969	35,150	117,539	629,027
361	Electrical industrial apparatus.	200	20,108	83,096	15,413	30,432	54,107	141,876	5,041	18,890	98,651
362	Electrical appliances.....	48	12,226	55,265	9,906	19,320	40,390	108,787	5,245	11,157	74,567
366	Communication equipment.....	297	80,127	336,437	59,613	114,158	217,505	570,197	23,584	80,432	416,932
369	Electrical products, n.e.c.....	69	1,920	8,033	1,465	2,777	5,164	17,594	421	3,836	27,422
37	Transportation equipment.....	222	47,138	233,073	35,114	71,411	158,224	447,681	31,135	42,170	236,237
371	Motor vehicles and equipment....	149	13,712	68,821	10,963	23,492	50,106	149,721	23,443	13,714	92,762
372	Aircraft and parts.....	28	16,619	86,275	11,382	23,148	52,409	127,642	2,399	(D)	(D)
373	Ships and boats.....	13	514	2,359	464	961	2,022	4,410	167	335	1,407
38	Instruments and related products.....	291	24,810	103,678	17,953	35,686	66,951	191,407	5,110	25,425	123,956
382	Mechanical measuring instruments	48	4,726	21,155	3,247	6,520	12,305	42,627	937	(D)	(D)
384	Medical equipment and supplies..	94	5,266	20,850	3,794	7,004	13,204	41,126	1,260	5,832	32,327
386	Photographic equipment.....	77	7,976	32,136	5,927	12,261	22,576	63,114	1,627	(D)	(D)
387	Watches and clocks.....	15	3,635	15,531	2,696	5,039	9,814	24,112	462	(D)	(D)
39	Miscellaneous manufactures <sup>4</sup> ...	1,006	39,288	155,444	31,623	62,329	108,556	259,223	8,746	33,130	167,686
393	Musical instruments and parts....	40	2,453	10,242	2,197	4,747	8,671	23,000	202	2,952	13,976
394	Toys and sporting goods.....	129	4,674	16,819	4,046	7,562	12,619	30,549	1,081	4,864	25,326
395	Office supplies.....	64	2,293	9,728	1,531	3,136	5,291	16,112	401	4,124	23,849
397	Plastics products, n.e.c.....	226	11,805	47,689	9,813	19,631	35,078	77,021	4,512	6,440	31,229
398	Miscellaneous manufactures <sup>4</sup> .....	411	15,148	59,969	11,707	22,842	39,656	95,027	2,204	10,999	53,820
PEORIA STANDARD METROPOLITAN AREA (Consists of Peoria and Tazewell Counties, Illinois)											
	All industries, total <sup>1</sup> .....	313	37,779	167,348	30,211	59,984	124,639	362,496	20,935	<sup>2</sup> 42,511	<sup>2</sup> 280,670
20	Food and kindred products....	80	7,621	33,099	5,816	11,595	23,453	106,184	6,497	( <sup>3</sup> )	( <sup>3</sup> )
201	Meat products.....	12	785	3,371	580	1,209	2,276	4,474	324	906	4,087
202	Dairy products.....	15	669	2,531	370	767	1,228	5,303	464	( <sup>3</sup> )	( <sup>3</sup> )
204	Grain mill products.....	8	407	1,682	321	691	1,244	4,984	100	326	3,474
205	Bakery products.....	13	402	1,799	206	433	743	3,287	269	(D)	(D)
208	Beverages.....	16	3,437	16,042	2,759	5,402	11,809	63,337	2,607	5,313	81,724
209	Miscellaneous foods.....	8	1,716	7,036	1,392	2,721	5,625	23,637	2,694	(D)	(D)
21	Tobacco manufactures.....	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
22	Textile mill products.....	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
23	Apparel and related products.	7	606	1,635	527	969	1,135	2,450	51	585	(D)
24	Lumber and wood products....	19	454	1,830	376	751	1,310	1,786	99	558	1,561
243	Millwork and related products...	12	236	1,049	178	370	645	1,339	69	(D)	(D)
25	Furniture and fixtures.....	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	53	154
26	Pulp, paper and products....	9	948	3,944	783	1,665	3,094	7,619	255	920	4,962
261	Pulp, paper and board.....	4	390	1,819	325	709	1,457	4,021	204	(D)	(D)
27	Printing and publishing.....	58	1,423	6,803	893	1,675	4,008	10,845	359	1,398	6,989
271	Newspapers.....	13	649	2,909	299	492	1,345	4,541	42	(D)	(D)
275	Commercial printing.....	18	351	1,704	293	591	1,335	2,540	193	(D)	(D)
276	Lithographing.....	9	254	1,323	212	422	872	1,988	55	(D)	(D)

See footnotes at end of table.



## MANUFACTURES—AREA STATISTICS

Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947  
(For explanation of column captions see Introduction)

Code	Industry group	Establish- ments, number	1954							1947	
			All employees		Production workers			Value added by manufacture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
PEORIA STANDARD METROPOLITAN AREA—Continued											
28	Chemicals and products.....	12	582	2,497	498	1,087	2,040	4,063	217	748	(D)
30	Rubber products.....	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
32	Stone, clay, and glass products	14	373	1,216	288	575	807	1,744	152	302	1,133
327	Concrete and plaster products...	10	166	636	111	203	357	960	98	(D)	(D)
33	Primary metal industries.....	12	2,819	15,553	2,323	4,738	11,680	32,748	2,371	2,631	(D)
332	Iron and steel foundries.....	4	369	1,463	281	553	1,060	1,961	168	366	1,699
34	Fabricated metal products....	24	804	3,364	666	1,276	2,264	5,783	323	973	5,972
343	Heating and plumbing equipment..	3	125	475	108	194	373	670	(D)	317	2,116
344	Structural metal products.....	10	272	1,055	217	389	661	2,096	91	183	1,219
346	Metal stamping and coating.....	7	100	282	88	161	194	463	54	(D)	(D)
35	Machinery, except electrical..	36	21,585	95,400	17,580	34,741	73,446	185,791	10,406	24,507	111,609
354	Metalworking machinery.....	5	102	559	87	169	411	752	29	(D)	(D)
356	General industrial machinery....	4	130	611	82	177	354	1,504	5	(D)	(D)
359	Miscellaneous machinery parts...	14	117	400	104	192	354	635	53	(D)	(D)
36	Electrical machinery.....	9	128	575	105	218	397	1,166	32	134	612
37	Transportation equipment.....	3	66	(D)	52	(D)	(D)	(D)	(D)	143	(D)
38	Instruments and related products.....	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	19	(D)
39	Miscellaneous manufactures <sup>4</sup> ..	13	217	710	180	338	474	1,152	142	157	763
394	Toys and sporting goods.....	5	114	305	100	177	216	496	10	(D)	(D)
ST. LOUIS STANDARD METROPOLITAN AREA (Consists of St. Louis city, St. Charles and St. Louis Counties, Missouri; Madison, and St. Claire Counties, Illinois)											
	All industries, total <sup>1</sup> ....	3,128	251,766	1,060,335	191,375	373,705	725,308	2,053,083	131,184	<sup>2</sup> 244,481	<sup>2</sup> 1,295,842
20	Food and kindred products....	428	34,201	154,063	23,610	47,724	98,660	315,976	14,320	( <sup>3</sup> )	( <sup>3</sup> )
201	Meat products.....	64	11,670	50,969	8,823	18,119	36,744	63,544	2,299	11,820	49,890
202	Dairy products.....	68	3,701	17,524	1,407	3,101	5,388	29,145	1,918	( <sup>3</sup> )	( <sup>3</sup> )
203	Canned and frozen foods.....	18	424	1,224	366	676	824	1,950	142	464	2,683
204	Grain mill products.....	36	1,860	7,928	1,281	2,603	4,819	22,081	589	1,749	19,229
205	Bakery products.....	83	5,222	19,983	3,328	6,238	10,683	35,235	1,085	4,903	21,725
208	Beverages.....	63	7,624	41,600	5,729	11,676	31,046	118,913	5,695	7,354	79,680
209	Miscellaneous foods.....	83	3,167	12,905	2,258	4,443	7,919	41,283	2,494	4,615	38,023
21	Tobacco manufactures.....	10	675	(D)	568	(D)	(D)	(D)	(D)	1,683	(D)
22	Textile mill products.....	25	2,507	7,501	2,157	4,150	5,554	12,505	211	2,418	8,516
23	Apparel and related products..	290	14,992	40,744	13,122	23,490	30,442	69,550	527	19,116	76,547
231	Men's and boys' suits and coats.	14	2,052	6,461	1,844	3,349	5,040	11,723	36	(D)	(D)
232	Men's and boys' furnishings....	43	2,691	7,292	2,304	4,090	5,061	11,688	123	3,055	10,524
233	Women's and misses' outerwear...	101	6,236	15,713	5,606	10,032	12,547	29,051	156	8,547	33,429
235	Millinery.....	15	291	771	238	426	569	1,067	3	(D)	(D)
236	Children's outerwear.....	9	393	924	337	581	658	1,656	21	189	389
238	Miscellaneous apparel.....	12	396	1,004	359	611	819	1,640	29	1,121	4,720
239	Fabricated textiles, n.e.c.....	85	2,110	6,353	1,735	3,138	4,269	9,275	100	2,660	9,425
24	Lumber and wood products....	106	1,794	6,577	1,477	2,939	4,632	9,212	212	2,947	11,465
242	Lumber and basic products.....	13	138	304	129	237	265	629	17	158	259
243	Millwork and related products...	49	820	3,371	630	1,282	2,225	4,211	102	1,399	4,858
244	Wooden containers.....	10	223	859	183	355	577	1,127	41	753	2,341
25	Furniture and fixtures.....	108	5,155	19,481	4,270	8,424	13,948	28,682	612	5,295	20,612
251	Household furniture.....	39	2,130	7,225	1,798	3,562	5,423	11,460	231	2,955	10,443
254	Partitions and fixtures.....	25	944	3,835	760	1,444	2,785	4,975	77	(D)	(D)
256	Screens, shades, and blinds....	20	413	1,697	411	857	1,083	3,009	53	555	2,463
259	Furniture and fixtures, n.e.c....	10	690	2,732	554	1,075	1,969	3,195	86	(D)	(D)
26	Pulp, paper and products....	83	8,300	32,519	6,655	13,372	22,325	53,336	4,870	7,155	35,395
261	Pulp, paper and board.....	6	1,255	5,929	1,020	2,090	4,123	11,853	863	(D)	(D)
265	Envelopes.....	5	766	3,225	567	1,165	1,914	4,723	107	(D)	(D)
266	Paper bags.....	7	1,504	5,338	1,185	2,284	3,474	7,107	235	(D)	(D)
267	Paperboard containers.....	43	4,240	16,129	3,460	7,005	11,489	26,109	3,255	3,720	16,270
27	Printing and publishing.....	461	12,471	59,160	8,474	15,687	36,230	87,636	3,687	11,713	65,322
271	Newspapers.....	55	3,324	18,700	1,956	3,565	10,807	28,442	370	(D)	(D)
272	Periodicals.....	25	747	3,038	316	664	1,106	5,461	203	(D)	(D)
273	Books.....	12	720	2,936	407	810	1,623	4,208	117	502	3,353
275	Commercial printing.....	199	3,093	13,464	2,313	4,075	8,866	18,602	590	(D)	(D)
276	Lithographing.....	69	2,832	13,555	2,141	4,114	8,609	19,906	1,809	(D)	(D)
278	Bookbinding and related indus- tries.....	37	709	2,372	611	1,098	1,826	4,160	186	(D)	(D)
279	Printing trade services.....	55	925	4,710	699	1,302	3,324	6,187	387	778	4,265

See footnotes at end of table.



Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947  
(For explanation of column captions see Introduction)

Code	Industry group	Establish- ments, number	1954							1947	
			All employees		Production workers			Value added by manufacture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours ((1,000)	Wages (\$1,000)				
ST. LOUIS STANDARD METROPOLITAN AREA—Continued											
28	Chemicals and products.....	228	18,932	87,857	12,299	24,632	51,123	230,842	19,188	16,984	127,531
281	Inorganic chemicals.....	7	2,016	9,236	1,521	2,978	6,593	15,863	4,629	(D)	(D)
282	Organic chemicals.....	6	4,885	24,441	3,327	6,737	15,315	57,021	9,481	(D)	(D)
283	Drugs and medicines.....	38	4,551	20,761	2,535	5,233	10,272	50,904	1,290	3,893	35,145
284	Soap and related products.....	45	1,411	6,559	858	1,668	3,458	31,373	616	889	10,229
285	Paints and allied products.....	47	3,401	16,127	2,233	4,423	9,308	48,129	903	3,364	27,601
287	Fertilizers.....	9	941	3,785	737	1,511	2,742	8,812	1,194	931	6,537
288	Vegetable and animal oils.....	7	306	1,255	208	432	797	2,285	224	(D)	(D)
289	Chemical products, n.e.c.....	69	1,418	5,690	876	1,646	2,636	16,453	849	1,380	9,574
29	Petroleum and coal products..	36	8,065	41,814	6,073	11,732	29,121	116,030	26,278	7,204	67,591
291	Petroleum refining.....	4	6,372	34,024	4,735	9,045	23,895	100,222	24,701	(D)	(D)
299	Petroleum and coal products,n.e.c.	18	595	2,847	456	958	1,673	8,828	112	(D)	(D)
30	Rubber products.....	13	478	(D)	337	(D)	(D)	(D)	(D)	826	4,635
31	Leather and leather goods....	89	11,045	32,065	9,752	17,259	24,501	47,621	1,556	18,286	52,381
313	Footwear cut stock.....	25	2,085	5,977	1,848	3,468	4,702	7,444	1,326	(D)	(D)
314	Footwear, except rubber.....	31	6,600	18,960	5,856	9,980	14,694	28,935	138	11,748	33,408
317	Purses and small leather goods..	15	1,307	3,775	1,132	2,061	2,420	6,271	71	(D)	(D)
32	Stone, clay and glass products	127	9,088	36,924	7,811	15,897	29,779	89,954	4,120	9,313	46,186
323	Products of purchased glass....	17	161	715	117	210	468	1,326	36	(D)	(D)
325	Structural clay products.....	15	1,768	7,333	1,442	3,115	5,659	10,107	740	2,125	9,879
327	Concrete and plaster products...	52	654	2,458	504	1,012	1,570	5,033	430	639	2,834
329	Nonmetallic mineral products, n.e.c.....	30	1,509	6,342	1,260	2,545	4,816	13,652	332	1,360	7,988
33	Primary metal industries.....	89	20,642	93,059	16,739	32,412	68,609	164,991	13,963	23,923	118,691
332	Iron and steel foundries.....	36	7,707	32,304	6,363	11,259	23,563	48,222	1,617	11,703	49,617
336	Nonferrous foundries.....	28	1,215	4,687	1,057	1,973	3,667	7,380	222	(D)	(D)
34	Fabricated metal products....	361	20,047	84,431	16,046	31,740	59,255	147,808	7,208	18,921	91,146
342	Cutlery, tools and hardware....	36	2,026	8,690	1,721	3,509	6,372	13,715	165	1,866	7,967
343	Heating and plumbing equipment..	27	2,849	11,076	2,061	3,879	7,637	17,736	562	4,823	22,126
344	Structural and ornamental work..	124	5,193	24,413	4,078	8,355	16,641	40,960	2,010	3,870	21,407
346	Metal stamping and coating.....	76	2,793	10,770	2,341	4,567	7,780	16,062	731	2,974	11,270
348	Fabricated wire products.....	21	1,658	7,031	1,307	2,467	4,672	13,575	602	1,794	10,934
349	Metal products, n.e.c.....	50	2,569	10,126	2,056	3,932	6,918	18,016	467	1,394	7,010
35	Machinery, except electrical.	347	18,958	83,607	14,325	27,714	57,640	138,979	5,859	20,898	106,545
353	Construction and mining machinery	9	646	2,992	447	850	1,692	7,011	133	672	5,107
354	Metalworking machinery.....	93	1,470	6,706	1,217	2,373	5,293	9,353	495	1,472	8,547
355	Special-industry machinery, n.e.c.	28	1,028	4,712	668	1,335	2,857	7,305	47	2,573	12,665
356	General industrial machinery....	42	1,415	6,309	1,046	2,068	3,892	14,482	391	1,913	13,279
358	Service and household machines..	30	5,088	21,318	3,696	7,600	13,959	36,207	839	3,503	19,082
359	Miscellaneous machinery parts...	131	7,414	33,064	5,748	10,811	24,500	52,507	3,256	9,385	42,377
36	Electrical machinery.....	60	15,884	68,366	11,910	23,355	45,981	118,696	5,611	14,719	73,506
361	Electrical industrial apparatus.	37	13,836	60,501	10,317	20,320	40,542	100,162	5,119	11,534	55,436
362	Electrical appliances.....	6	952	3,647	662	1,305	1,985	5,496	125	(D)	(D)
37	Transportation equipment.....	48	28,212	131,506	21,057	42,972	92,400	270,077	19,609	18,579	112,605
371	Motor vehicles and equipment....	34	11,693	54,548	9,792	20,158	43,738	160,960	16,185	(D)	(D)
38	Instruments and related products.....	37	2,283	9,717	1,466	2,904	5,191	17,263	500	(D)	(D)
382	Mechanical measuring instruments	7	1,501	7,110	854	1,739	3,477	12,379	181	(D)	(D)
384	Medical equipment and supplies..	16	551	1,772	423	787	1,145	2,562	75	440	1,419
39	Miscellaneous manufactures <sup>4</sup> ..	182	18,030	66,558	13,221	25,567	47,056	124,346	2,731	9,346	37,797
391	Jewelry and silverware.....	8	122	569	101	175	378	771	...	156	745
394	Toys and sporting goods.....	33	2,011	6,102	1,699	2,989	4,633	9,518	214	1,619	6,243
395	Office supplies.....	16	692	1,912	380	785	898	2,655	30	1,002	3,451
397	Plastics products, n.e.c.....	33	912	2,603	820	1,499	2,062	4,621	152	(D)	(D)
398	Miscellaneous manufactures <sup>4</sup> ....	81	13,972	54,370	9,944	19,587	38,300	105,152	2,299	5,898	24,817

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industry groups (3-digit) are not shown. Industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "All industries" line.

<sup>2</sup>The 1954 and 1947 "All industries" totals are not strictly comparable because of differences in scope between the two years in Major Group 20 (see footnote 3).

<sup>3</sup>Comparable data for Major Group 20 are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude plants processing and distributing fluid milk which in 1954 were classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
20	Food and kindred products, except Sub-group 202, Dairy Products:				
	Chicago Standard Metropolitan Area	94,248	872,936	96,000	694,000
	Peoria Standard Metropolitan Area.	6,952	100,881	9,000	116,000
	St. Louis Standard Metropolitan Area.....	30,500	286,831	32,320	217,467

<sup>4</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)

## MANUFACTURES—AREA STATISTICS

Table 6.--GENERAL STATISTICS FOR PRINCIPAL INDUSTRIAL COUNTIES, BY MAJOR INDUSTRY GROUP: 1954 AND 1947--Continued

(Principal industrial counties include all counties with 20,000 or more manufacturing employees. For explanation of column captions see Introduction)

Code	Major industry group	1954								1947	
		Establish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendit- ures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
ROCK ISLAND COUNTY											
	All industries, total <sup>1</sup> .....	198	22,878	102,571	17,356	33,473	72,317	176,773	14,326	<sup>2</sup> 28,050	<sup>2</sup> 128,515
20	Food and kindred products.....	44	1,063	3,948	698	1,498	2,215	6,929	430	533	2,462
33	Primary metal industries.....	20	1,206	5,555	1,026	2,045	4,430	7,545	129	1,952	8,606
34	Fabricated metal products.....	18	1,101	5,008	765	1,545	3,059	11,867	248	862	4,941
35	Machinery, except electrical..	48	14,972	70,928	11,361	21,599	50,681	123,497	12,576	20,470	94,723
ST. CLAIR COUNTY											
	All industries, total <sup>1</sup> .....	251	22,861	96,138	17,700	34,817	68,978	170,059	23,478	<sup>2</sup> 25,158	<sup>2</sup> 123,885
20	Food and kindred products.....	69	8,164	35,451	6,119	12,675	25,169	50,260	2,422	7,964	38,315
23	Apparel and related products..	8	575	1,211	560	997	1,125	2,572	11	636	(D)
24	Lumber and wood products.....	11	150	485	125	235	378	766	9	583	2,383
27	Printing and publishing.....	32	330	1,254	220	413	920	2,126	108	334	1,801
28	Chemicals and products.....	18	5,147	24,002	3,758	7,455	16,318	49,901	10,470	5,331	28,735
31	Leather and leather goods.....	3	541	1,129	522	871	1,032	2,241	...	739	(D)
33	Primary metal industries.....	16	2,955	11,773	2,372	4,488	9,105	22,422	1,793	3,785	(D)
34	Fabricated metal products.....	30	1,258	4,663	1,085	1,894	3,439	7,679	89	2,289	9,929
35	Machinery, except electrical..	23	692	3,200	494	952	2,116	5,321	252	1,002	3,913
39	Miscellaneous manufactures <sup>3</sup> ...	5	420	2,075	248	558	1,173	4,586	7	60	(D)
TAZEWELL COUNTY											
	All industries, total <sup>1</sup> .....	71	22,783	98,795	18,768	36,962	76,662	206,951	12,965	<sup>2</sup> 25,035	<sup>2</sup> 122,614
20	Food and kindred products.....	13	2,534	10,983	2,060	4,043	8,255	32,639	2,853	2,267	(D)
32	Stone, clay, & glass products..	8	272	872	223	427	566	1,250	111	218	727
39	Miscellaneous manufactures <sup>3</sup> ...	11	122	513	103	190	316	835	6	(NA)	(NA)
WINNEBAGO COUNTY											
	All industries, total <sup>1</sup> .....	439	38,194	177,568	29,318	61,937	124,101	312,770	16,255	<sup>2</sup> 35,102	<sup>2</sup> 188,535
20	Food and kindred products.....	43	1,182	4,817	746	1,550	2,530	11,888	661	1,032	5,599
22	Textile mill products.....	5	503	1,668	433	884	1,208	2,790	24	1,318	4,550
25	Furniture and fixtures.....	22	1,563	5,627	1,344	2,659	4,279	9,068	177	2,423	11,818
26	Pulp, paper and products.....	6	250	906	209	447	699	2,048	346	187	1,344
27	Printing and publishing.....	42	690	2,974	465	893	2,068	5,614	173	514	3,471
28	Chemicals and products.....	8	452	1,589	328	599	910	4,478	100	358	1,969
32	Stone, clay & glass products..	13	174	747	131	306	507	1,684	162	432	2,807
33	Primary metal industries.....	21	1,578	7,051	1,293	2,609	5,424	10,302	463	2,848	13,905
34	Fabricated metal products.....	71	11,457	51,453	9,293	19,190	37,981	83,378	5,781	10,272	55,441
35	Machinery, except electrical..	141	12,840	66,087	9,395	21,259	44,798	127,807	6,573	11,485	67,294
36	Electrical machinery.....	4	320	1,086	254	444	733	2,298	26	103	(D)
37	Transportation equipment.....	11	3,795	19,643	2,816	5,869	13,243	28,967	1,330	1,848	10,195
38	Instruments and related prod..	4	1,637	7,441	1,078	2,271	4,584	11,857	223	936	(D)
39	Miscellaneous manufactures <sup>3</sup> ...	22	1,457	5,661	1,290	2,496	4,559	9,517	184	607	2,771

D Withheld to avoid disclosing data for individual companies.

NA Not available.

<sup>1</sup>In order to avoid disclosing data for individual companies, the statistics for some industry groups are not shown. Industry groups reporting less than 100 employees are also omitted. They are included, however, in the "All industries" line.<sup>2</sup>The 1954 and 1947 "All industries" totals are not strictly comparable because of differences in coverage of loggers and fluid milk distributors. See discussion in Introduction and footnote to Table 4 for comparable figures at the State level.<sup>3</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)



Table 6.—GENERAL STATISTICS FOR PRINCIPAL INDUSTRIAL COUNTIES, BY MAJOR INDUSTRY GROUP: 1954 AND 1947

(Principal industrial counties include all counties with 20,000 or more manufacturing employees. For explanation of column captions see Introduction)

Code	Major industry group	1954							1947		
		Establishments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendit- ures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
COOK COUNTY											
	All industries, total <sup>1</sup> .....	12,020	766,568	3,445,448	581,674	1,152,794	2,314,677	6,296,850	288,001	<sup>2</sup> 788,872	<sup>2</sup> 4,547,449
20	Food and kindred products.....	1,048	94,243	405,234	70,251	143,717	268,591	888,240	42,419	93,075	661,318
22	Textile mill products.....	91	6,781	26,772	5,411	10,858	17,662	45,776	1,747	7,768	41,886
23	Apparel and related products..	1,034	35,301	114,100	29,485	51,118	79,419	181,918	2,245	45,711	213,515
24	Lumber and wood products.....	307	6,963	28,306	5,632	11,179	19,679	41,565	933	6,580	32,367
25	Furniture and fixtures.....	509	17,954	74,500	14,704	29,462	52,303	117,602	4,496	18,838	89,600
26	Pulp, paper and products.....	306	21,106	88,289	16,587	33,432	59,083	157,320	6,870	18,810	107,505
27	Printing and publishing.....	1,866	75,638	389,182	49,497	96,012	245,489	637,414	22,399	77,020	469,707
28	Chemicals and products.....	615	26,855	128,405	17,430	34,435	66,783	375,644	13,696	31,135	294,574
29	Petroleum and coal products...	55	3,933	19,085	2,957	6,201	12,805	38,227	3,508	4,687	34,985
31	Leather and leather goods.....	184	8,719	32,181	7,680	14,698	24,411	50,615	788	12,345	(D)
32	Stone, clay, & glass products.	320	12,003	52,067	9,577	19,416	36,134	89,088	6,483	11,109	61,405
33	Primary metal industries.....	309	54,268	253,708	44,564	85,553	190,249	491,899	31,095	57,838	328,523
34	Fabricated metal products.....	1,751	83,262	383,863	67,569	137,610	275,716	652,249	32,648	79,267	433,715
35	Machinery, except electrical..	1,571	106,210	524,421	78,353	159,669	349,055	863,078	42,005	120,562	626,968
36	Electrical machinery.....	581	111,738	473,498	84,224	162,635	310,574	822,839	33,619	112,934	608,016
37	Transportation equipment.....	192	40,549	204,154	30,263	62,130	138,210	404,099	29,425	34,578	194,580
38	Instruments and related prod..	275	22,149	92,277	16,021	32,019	59,878	173,394	4,703	22,441	(D)
39	Miscellaneous manufactures <sup>3</sup> ...	907	33,966	136,060	27,551	54,605	95,264	226,024	7,022	30,226	152,797
KANE COUNTY											
	All industries, total <sup>1</sup> .....	369	27,614	117,542	20,498	40,841	76,016	204,487	8,943	<sup>2</sup> 26,552	<sup>2</sup> 138,002
20	Food and kindred products.....	46	1,314	5,541	916	1,958	3,268	12,525	1,036	768	5,678
23	Apparel and related products..	18	1,206	3,453	1,064	1,958	2,905	5,964	92	1,056	4,233
24	Lumber and wood products.....	17	322	1,255	235	471	833	1,788	54	327	1,142
25	Furniture and fixtures.....	23	3,269	14,410	2,425	4,791	9,223	24,988	1,129	2,688	15,812
26	Pulp, paper and products.....	9	793	3,095	644	1,404	2,125	5,068	395	749	3,482
27	Printing and publishing.....	40	1,551	7,047	1,126	2,178	4,954	11,169	1,067	1,744	8,498
28	Chemicals and products.....	11	317	1,014	247	480	745	2,661	110	247	1,649
34	Fabricated metal products.....	39	1,975	8,220	1,461	2,985	5,641	14,610	437	1,197	7,036
35	Machinery, except electrical..	63	6,251	28,898	4,368	8,851	17,377	50,739	1,326	7,163	40,387
36	Electrical machinery.....	17	2,089	8,720	1,665	3,217	5,965	14,308	572	2,845	13,577
37	Transportation equipment.....	11	1,322	6,440	973	2,013	3,885	10,081	693	901	(D)
39	Miscellaneous manufactures <sup>3</sup> ...	33	2,543	8,588	1,812	3,532	5,646	15,704	575	334	1,445
LAKE COUNTY											
	All industries, total <sup>1</sup> .....	281	23,857	107,025	17,383	34,212	69,645	212,407	10,852	<sup>2</sup> 20,482	<sup>2</sup> 139,396
20	Food and kindred products.....	36	1,172	4,012	913	1,612	2,482	11,700	342	1,171	18,655
23	Apparel and related products..	7	230	525	203	377	394	841	180	185	482
25	Furniture and fixtures.....	9	185	748	152	292	590	829	32	188	(D)
26	Pulp, paper and products.....	6	689	2,893	572	1,121	2,158	4,539	242	(D)	(D)
27	Printing and publishing.....	39	1,082	4,448	687	1,307	2,588	7,735	248	696	3,856
28	Chemicals and products.....	19	3,652	16,033	2,031	3,867	7,058	57,411	3,427	3,345	(D)
33	Primary metal industries.....	9	2,603	12,289	1,953	3,983	9,115	17,636	335	3,289	16,370
34	Fabricated metal products.....	33	1,869	8,487	1,501	3,057	6,256	14,677	422	2,174	11,219
35	Machinery, except electrical..	53	6,252	32,246	4,515	9,219	21,020	48,627	2,580	3,692	18,686
36	Electrical machinery.....	21	2,888	11,243	2,170	4,228	7,091	20,677	800	1,290	5,230
39	Miscellaneous manufactures <sup>3</sup> ...	14	244	916	200	362	569	1,278	80	107	531
MADISON COUNTY											
	All industries, total <sup>1</sup> .....	199	32,825	150,016	24,905	49,579	105,653	332,077	45,693	<sup>2</sup> 34,122	<sup>2</sup> 199,632
20	Food and kindred products.....	48	1,843	7,541	1,285	2,708	4,727	17,130	774	2,008	15,125
23	Apparel and related products..	8	434	894	410	806	813	1,033	14	749	1,369
24	Lumber and wood products.....	14	197	572	168	324	425	1,076	18	245	1,261
27	Printing and publishing.....	22	295	1,324	162	316	698	2,103	74	223	1,254
28	Chemicals and products.....	8	1,105	5,214	728	1,538	2,857	9,383	304	302	(D)
29	Petroleum and coal products...	7	6,126	32,502	4,574	8,811	22,912	94,842	17,872	5,870	54,523
33	Primary metal industries.....	18	12,059	58,925	9,534	18,904	42,181	107,644	11,222	13,259	68,663
37	Transportation equipment.....	4	936	4,728	818	1,820	3,832	4,780	12,325	(D)	(D)

See footnotes at end of table.



## MANUFACTURES—AREA STATISTICS

Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954

20 Food and kindred products	26 Pulp, paper and products	32 Stone, clay, and glass products	38 Instruments and related products
21 Tobacco manufactures	27 Printing and publishing	33 Primary metal industries	39 Miscellaneous manufactures (Includes Group 19)
22 Textile mill products	28 Chemicals and products	34 Fabricated metal products	Ordinance and accessories)
23 Apparel and related products	29 Petroleum and coal products	35 Machinery, except electrical	
24 Lumber and wood products	30 Rubber products	36 Electrical machinery	
25 Furniture and fixtures	31 Leather and leather goods	37 Transportation equipment	

(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Illinois, total.....	17,628	2,239	32	126	1,250	704	656	406	2,720	833	92	91	238	631	533	2,254	2,312	744	269	320	1,178
1 to 4 employees.....	5,906	670	25	28	363	359	231	58	1,218	281	13	24	71	240	90	674	791	171	67	101	431
5 to 9 employees.....	2,717	353	4	13	191	112	92	49	462	123	8	9	31	110	69	370	385	92	36	41	167
10 to 19 employees.....	2,627	374	1	24	206	101	88	62	389	118	11	14	29	79	65	366	350	86	30	50	184
20 to 49 employees.....	2,755	352	1	21	246	73	119	84	328	126	14	16	36	96	113	399	332	127	41	52	179
50 to 99 employees.....	1,532	231	...	19	132	34	60	62	154	84	14	15	22	45	55	195	171	74	36	25	104
100 to 249 employees.....	1,203	177	...	11	81	20	43	60	112	60	16	9	19	37	66	159	128	89	24	23	69
250 to 499 employees.....	480	41	1	6	24	4	14	23	32	23	9	2	24	13	41	48	69	47	13	16	30
500 to 999 employees.....	240	19	...	3	5	1	9	7	13	13	4	1	5	4	17	30	47	30	14	6	12
1,000 to 2,499 employees.....	127	16	...	1	1	...	...	1	10	3	2	1	...	6	11	12	31	21	6	4	1
2,500 employees and over.....	41	6	...	...	1	...	...	...	2	2	1	...	1	1	6	1	8	7	2	2	1
Adams:																					
1 to 19 employees.....	68	18	1	...	4	2	1	2	15	1	...	1	...	4	2	3	9	1	...	2	2
20 to 99 employees.....	28	8	...	...	...	...	2	1	2	2	...	...	...	2	2	2	5	1	1	...	...
100 employees and over.....	16	2	...	...	1	...	...	2	1	...	...	...	1	...	...	1	4	3	...	...	1
Alexander:																					
1 to 19 employees.....	16	2	...	...	...	6	...	...	3	...	...	...	1	...	...	1	1	...	...	...	2
20 to 99 employees.....	11	2	...	...	1	1	...	...	1	3	...	...	...	1	...	1	1	...	...	...	...
100 employees and over.....	3	...	...	...	2	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Bond:																					
1 to 19 employees.....	9	2	...	...	...	3	...	...	2	...	...	...	...	...	...	...	1	...	...	...	1
20 to 99 employees.....	2	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...
100 employees and over.....	3	1	...	...	1	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...
Boone:																					
1 to 19 employees.....	23	2	...	...	...	1	1	1	2	2	...	...	...	1	1	6	4	1	...	...	1
20 to 99 employees.....	14	2	...	...	2	...	...	...	1	...	...	1	...	...	3	2	3	...	...	...	...
100 employees and over.....	3	1	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...	...
Brown:																					
1 to 19 employees.....	7	2	...	...	...	3	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Bureau:																					
1 to 19 employees.....	29	11	1	...	...	3	...	...	3	2	...	...	...	4	...	1	4	...	...	...	...
20 to 99 employees.....	12	2	...	...	1	2	...	...	1	...	...	1	...	1	1	1	2	...	...	...	...
100 employees and over.....	4	...	...	...	...	...	...	...	1	...	...	...	...	1	1	...	...	...	...	1	...
Calhoun:																					
1 to 19 employees.....	6	...	...	...	...	3	...	...	2	...	...	...	...	...	1	...	...	...	...	...	...
Carroll:																					
1 to 19 employees.....	15	5	...	...	...	1	...	...	4	...	...	...	...	1	...	...	2	...	...	1	1
20 to 99 employees.....	4	2	...	...	...	...	...	...	...	...	1	...	...	...	...	1	...	...	...	...	...
Cass:																					
1 to 19 employees.....	12	4	...	...	...	3	...	...	4	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	2	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...
100 employees and over.....	2	1	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
Champaign:																					
1 to 19 employees.....	54	13	...	...	1	1	1	...	18	4	...	...	...	5	...	1	5	1	1	1	2
20 to 99 employees.....	18	7	...	...	...	...	2	...	3	1	...	...	1	1	...	2	1	...	...	...	...
100 employees and over.....	8	1	...	...	1	...	...	...	2	1	...	...	...	...	2	...	1	...	...	...	...
Christian:																					
1 to 19 employees.....	26	8	...	...	1	3	...	...	4	1	...	...	...	2	...	4	3	...	...	...	...
20 to 99 employees.....	8	4	...	...	...	2	...	...	1	...	...	...	...	...	...	1	...	...	...	...	...
100 employees and over.....	6	...	...	...	3	...	...	1	1	...	1	...	...	...	...	...	...	...	...	...	...
Clark:																					
1 to 19 employees.....	19	4	...	...	...	5	...	1	8	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	2	...	...	...	...	...	...	...	...	1	...	...	...	...	1	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	...	...	...	...	...	1	...	...	1	...	...	...	...	...	...	...	...
Clay:																					
1 to 19 employees.....	7	3	...	...	...	2	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	2	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
100 employees and over.....	2	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
Clinton:																					
1 to 19 employees.....	25	6	...	...	...	7	1	...	3	2	...	...	...	4	...	1	1	...	...	...	...
20 to 99 employees.....	9	2	...	1	...	1	...	1	...	...	...	...	1	...	...	1	1	1	...	...	...
100 employees and over.....	4	...	...	...	...	...	...	...	...	...	...	...	2	...	1	1	...	...	...	...	...
Coles:																					
1 to 19 employees.....	39	12	...	...	...	5	1	...	6	2	...	...	...	3	...	...	3	...	1	...	6
20 to 99 employees.....	10	3	...	...	1	...	...	...	1	...	...	...	...	2	...	2	...	...	...	...	1
100 employees and over.....	5	...	...	...	...	1	...	...	...	...	...	...	2	...	...	...	...	1	1	...	...
Cook:																					
1 to 19 employees.....	7,654	572	21	54	689	233	331	140	1,373	404	23	41	124	208	131	1,104	1,063	274	96	163	610
20 to 99 employees.....	3,019	296	1	25	285	59	134	104	366	150	19	27	45	87	94	470	349	163	58	68	219
100 employees and over.....	1,347	180	1	12	60	15	44	62	127	61	13	8	15	25	84	177	159	144	38	44	78
Crawford:																					
1 to 19 employees.....	20	3	...	...	...	5	1	...	4	...	...	...	...	1	...	2	3	...	...	...	1
20 to 99 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	4	1	...	...	...	...	...	...	...	...	1	...	1	...	...	...	...	...	...	...	...
Cumberland:																					
1 to 19 employees.....	11	1	...	...	2	1	...	...	2	1	...	...	1	...	...	...	...	...	...	...	3
20 to 99 employees.....	3	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1
100 employees and over.....	2	...	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
De Kalb:																					
1 to 19 employees.....	54	13	...	1	...	1	...	...	9	3	...	...	...	3	2	7	12	2	...	...	1
20 to 99 employees.....	16	2	...	...	2	...	1	...	3	...	...	...	...	1	3	1	2	...	...	...	1
100 employees and over.....	17	1	...	...	1	...	...	...	1	...	...	...	...	...	1	5	1	6	...	...	1

Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954—Continued  
(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
De Witt:																					
1 to 19 employees.....	8	1	...	...	1	1	...	...	3	...	...	...	...	1	...	...	...	...	...	...	1
20 to 99 employees.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...
Douglas:																					
1 to 19 employees.....	11	3	...	...	...	...	1	...	5	...	...	...	...	...	...	1	...	...	...	...	1
20 to 99 employees.....	3	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	1
100 employees and over.....	2	...	...	...	...	...	...	...	1	...	...	...	...	...	1	...	...	...	...	...	...
Du Page:																					
1 to 19 employees.....	163	17	...	...	5	9	6	...	19	8	...	...	2	7	6	24	28	11	1	6	14
20 to 99 employees.....	55	7	...	1	1	2	3	...	4	2	...	...	...	...	1	12	8	4	1	2	7
100 employees and over.....	8	2	...	...	...	1	...	...	1	1	...	...	...	...	...	1	...	...	...	...	2
Edgar:																					
1 to 19 employees.....	17	8	...	...	...	1	1	...	4	...	...	...	...	...	...	...	3	...	...	...	...
20 to 99 employees.....	3	...	...	...	...	1	...	...	1	...	...	...	...	...	...	...	...	...	1	...	...
100 employees and over.....	6	1	...	...	...	...	...	...	1	...	...	...	1	...	...	1	...	...	1	...	1
Edwards:																					
1 to 19 employees.....	8	...	...	...	...	3	...	...	3	...	...	...	...	...	1	1	...	...	...	...	...
20 to 99 employees.....	2	...	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
Effingham:																					
1 to 19 employees.....	17	8	...	...	...	1	...	...	6	...	...	...	...	1	...	...	1	...	...	...	...
20 to 99 employees.....	6	1	...	...	2	1	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	3	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
Fayette:																					
1 to 19 employees.....	17	2	...	...	...	6	...	...	6	...	...	...	...	3	...	...	...	...	...	...	...
20 to 99 employees.....	2	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1	...	...	...	...
100 employees and over.....	3	...	...	...	1	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...
Ford:																					
1 to 19 employees.....	12	5	...	...	...	...	...	...	3	2	...	...	...	1	...	...	1	...	...	...	...
20 to 99 employees.....	5	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	2	...	...	...
100 employees and over.....	2	...	...	1	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
Franklin:																					
1 to 19 employees.....	26	6	...	...	2	3	...	...	3	...	1	...	...	3	...	1	5	...	...	...	2
20 to 99 employees.....	6	2	...	...	2	...	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	3	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Fulton:																					
1 to 19 employees.....	25	6	...	...	...	5	1	...	7	1	...	...	...	2	...	2	...	...	...	1	...
20 to 99 employees.....	4	1	...	...	2	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
Gallatin:																					
1 to 19 employees.....	2	...	...	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Greene:																					
1 to 19 employees.....	20	4	...	...	1	5	...	...	5	1	...	...	...	2	...	...	1	...	...	...	1
20 to 99 employees.....	7	...	...	...	3	...	...	1	...	2	...	...	...	1	...	...	...	...	...	...	...
Grundy:																					
1 to 19 employees.....	19	4	...	...	3	...	...	...	3	2	...	...	...	2	1	1	2	...	...	1	...
20 to 99 employees.....	4	...	...	...	2	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	7	...	...	...	...	...	...	4	...	1	...	...	...	1	...	...	...	...	...	...	1
Hamilton:																					
1 to 19 employees.....	8	3	...	...	...	2	...	...	1	...	...	...	...	1	1	...	...	...	...	...	...
20 to 99 employees.....	2	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
100 employees and over.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hancock:																					
1 to 19 employees.....	15	2	...	...	...	4	...	...	5	...	1	...	...	...	...	1	2	...	...	...	...
20 to 99 employees.....	9	4	...	...	1	...	...	...	1	...	...	...	...	...	1	...	...	1	...	...	1
Hardin:																					
1 to 19 employees.....	2	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Henderson:																					
1 to 19 employees.....	4	1	...	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	1
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Henry:																					
1 to 19 employees.....	38	12	...	...	...	3	...	...	9	1	...	...	...	4	...	3	5	...	...	...	1
20 to 99 employees.....	13	3	...	...	1	...	1	...	2	...	...	...	...	...	1	1	1	2	...	...	...
100 employees and over.....	5	...	...	...	1	...	...	...	...	...	...	...	...	...	...	2	2	...	...	...	...
Iroquois:																					
1 to 19 employees.....	24	8	...	...	1	3	...	...	6	1	...	...	...	1	...	2	1	...	...	1	...
20 to 99 employees.....	3	1	...	...	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	4	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	2	...	...	...
Jackson:																					
1 to 19 employees.....	29	9	...	...	...	8	...	...	5	1	...	...	...	2	1	1	1	...	1	...	...
20 to 99 employees.....	5	2	...	...	1	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	6	1	...	...	2	...	...	...	1	...	...	...	1	...	...	...	...	1	...	...	...
Jasper:																					
1 to 19 employees.....	8	3	...	...	...	2	...	...	2	...	...	...	...	...	...	...	...	...	...	...	1
20 to 99 employees.....	2	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Jefferson:																					
1 to 19 employees.....	23	8	...	...	...	5	1	...	3	1	...	...	...	...	...	1	2	2	...	...	...
20 to 99 employees.....	8	3	...	...	...	1	...	...	1	...	...	...	...	...	...	...	2	...	...	...	1
100 employees and over.....	6	...	...	...	1	...	...	...	...	...	...	...	1	...	1	1	...	1	...	...	...
Jersey:																					
1 to 19 employees.....	4	1	...	...	...	1	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...
20 to 99 employees.....	3	...	...	...	...	1	...	...	...	1	...	...	...	...	...	...	1	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
Jo Daviess:																					
1 to 19 employees.....	23	14	...	...	...	...	...	...	5	...	...	...	...	...	1	1	1	...	...	...	1
20 to 99 employees.....	4	2	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...



## MANUFACTURES—AREA STATISTICS

Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954—Continued  
(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Johnson:																					
1 to 19 employees.....	4	...	...	...	...	1	...	...	1	1	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Kane:																					
1 to 19 employees.....	221	26	...	1	9	13	10	2	27	9	...	...	...	12	7	28	43	8	4	3	19
20 to 99 employees.....	88	18	...	1	5	3	6	4	8	1	2	...	...	3	5	8	9	4	2	...	9
100 employees and over.....	60	2	...	...	4	1	7	3	5	1	...	...	1	1	5	3	11	5	5	1	5
Kankakee:																					
1 to 19 employees.....	59	10	1	...	1	4	2	1	10	1	...	...	...	5	1	10	7	...	...	...	6
20 to 99 employees.....	23	3	...	3	2	...	...	1	1	2	...	...	...	4	1	1	2	...	...	...	3
100 employees and over.....	20	2	...	2	...	...	3	1	...	4	1	...	...	1	1	2	2	1	...	...	...
Kendall:																					
1 to 19 employees.....	11	1	...	...	...	...	...	...	1	...	...	...	...	3	3	...	1	...	...	...	2
20 to 99 employees.....	9	...	...	...	...	...	...	...	...	...	...	...	...	1	2	3	1	1	...	...	1
100 employees and over.....	2	...	...	...	...	...	...	1	...	...	...	...	...	...	1	...	...	...	...	...	...
Knox:																					
1 to 19 employees.....	42	10	...	...	1	4	1	...	10	3	...	...	...	2	...	3	4	1	...	...	3
20 to 99 employees.....	13	4	...	...	2	...	...	1	1	2	...	...	...	...	1	1	1	...	...	...	...
100 employees and over.....	9	...	...	...	1	1	...	...	1	...	...	...	...	2	...	2	2	...	...	...	...
Lake:																					
1 to 19 employees.....	183	24	...	...	3	11	8	2	26	11	...	...	...	10	5	26	36	9	1	1	10
20 to 99 employees.....	56	8	...	1	4	1	...	1	9	6	1	1	1	2	1	3	6	8	...	...	3
100 employees and over.....	42	4	...	...	...	...	1	3	4	2	1	...	1	3	3	4	11	4	...	...	1
La Salle:																					
1 to 19 employees.....	78	25	...	...	4	1	...	...	15	...	...	...	...	10	2	9	8	...	...	...	2
20 to 99 employees.....	35	7	...	...	2	2	2	...	4	3	...	...	...	3	1	4	6	...	...	...	1
100 employees and over.....	33	3	...	...	2	...	...	2	1	1	1	...	...	10	3	2	2	3	1	1	1
Lawrence:																					
1 to 19 employees.....	18	6	...	...	...	...	...	...	6	1	1	...	...	2	...	...	2	...	...	...	...
20 to 99 employees.....	4	...	...	...	2	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...
Lee:																					
1 to 19 employees.....	27	12	...	...	...	2	1	1	6	...	...	...	...	2	...	2	...	...	...	...	1
20 to 99 employees.....	11	5	...	1	...	...	...	...	2	...	...	...	1	...	1	...	...	...	...	...	1
100 employees and over.....	6	1	...	...	...	1	...	...	...	...	...	...	1	1	1	...	1	...	...	...	...
Livingston:																					
1 to 19 employees.....	19	4	...	...	...	...	...	...	9	...	...	...	...	2	...	...	3	1	...	...	...
20 to 99 employees.....	13	1	...	...	2	1	2	...	2	...	...	...	1	1	...	...	2	1	...	...	...
100 employees and over.....	5	1	...	...	...	...	1	...	1	1	...	...	1	...	...	...	...	...	...	...	...
Logan:																					
1 to 19 employees.....	16	5	...	...	...	2	1	...	6	...	...	...	...	1	1	...	...	...	...	...	...
20 to 99 employees.....	4	...	...	...	...	...	1	1	1	...	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	5	1	...	...	1	...	...	...	...	1	...	...	...	2	...	...	...	...	...	...	...
McDonough:																					
1 to 19 employees.....	18	3	...	...	...	2	1	1	4	...	1	...	...	3	1	...	1	...	...	...	1
20 to 99 employees.....	8	4	...	...	...	...	...	...	1	...	...	...	...	1	1	...	1	...	...	...	...
100 employees and over.....	6	1	...	...	...	...	...	...	...	...	...	...	...	2	...	1	2	...	...	...	...
McHenry:																					
1 to 19 employees.....	86	10	...	2	1	5	2	1	11	3	1	1	...	4	1	15	16	1	4	2	6
20 to 99 employees.....	35	3	...	...	3	...	3	5	1	...	...	...	...	1	3	5	9	1	...	1	...
100 employees and over.....	13	1	...	...	...	...	...	...	...	...	...	...	...	...	1	1	5	5	...	...	...
McLean:																					
1 to 19 employees.....	57	16	...	...	1	5	...	...	16	1	...	...	...	2	1	2	5	3	...	...	5
20 to 99 employees.....	18	5	...	...	1	...	...	1	2	2	...	...	...	...	...	2	4	...	...	...	1
100 employees and over.....	10	2	...	...	...	...	...	...	2	...	...	...	...	1	...	1	2	2	...	...	...
Macon:																					
1 to 19 employees.....	78	12	...	...	2	2	6	2	15	4	...	...	...	3	2	12	8	...	1	...	9
20 to 99 employees.....	36	13	...	...	3	1	...	...	2	5	...	...	...	1	2	2	4	...	...	...	3
100 employees and over.....	26	3	...	...	3	...	1	...	1	4	...	...	1	...	2	1	4	...	2	...	4
Macoupin:																					
1 to 19 employees.....	32	15	...	...	...	1	1	...	9	...	...	...	...	3	...	...	1	...	1	...	1
20 to 99 employees.....	6	2	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Madison:																					
1 to 19 employees.....	126	33	...	...	5	12	2	3	19	4	2	...	1	13	4	8	7	3	2	2	6
20 to 99 employees.....	39	11	...	...	2	2	...	1	3	3	...	...	...	3	3	5	4	...	...	1	1
100 employees and over.....	34	4	...	...	1	...	...	3	...	1	5	...	1	1	11	2	...	1	2	...	2
Marion:																					
1 to 19 employees.....	30	9	...	...	1	3	...	...	6	1	...	...	...	3	...	1	4	1	...	...	1
20 to 99 employees.....	10	2	...	...	2	2	...	...	1	...	1	...	...	...	2	...	...	...	...	...	...
100 employees and over.....	5	1	...	...	1	...	...	...	...	...	...	...	1	...	...	1	...	...	...	...	1
Marshall:																					
1 to 19 employees.....	11	4	...	...	...	3	...	...	3	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	5	1	...	...	3	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Mason:																					
1 to 19 employees.....	13	2	1	...	...	2	...	...	4	...	...	...	...	2	1	1	...	...	...	...	...
20 to 99 employees.....	2	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
Massac:																					
1 to 19 employees.....	10	4	...	...	...	...	...	...	1	...	...	...	...	2	...	1	2	...	...	...	...
20 to 99 employees.....	2	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
100 employees and over.....	2	...	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Menard:																					
1 to 19 employees.....	8	2	...	...	...	2	...	...	2	...	...	...	...	1	...	...	1	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1



Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954—Continued  
(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Mercer:																					
1 to 19 employees.....	7	3	...	...	...	2	...	...	1	...	...	...	...	...	1	...	...	...	...	...	...
20 to 99 employees.....	5	1	...	...	...	...	...	...	1	...	...	...	...	1	...	1	...	...	...	...	1
Monroe:																					
1 to 19 employees.....	13	2	...	...	...	5	...	...	4	...	1	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	2	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Montgomery:																					
1 to 19 employees.....	37	8	...	...	...	3	...	...	8	3	...	...	...	5	...	3	5	1	...	...	1
20 to 99 employees.....	10	...	...	...	1	...	...	...	1	...	...	1	...	2	...	1	1	...	...	...	3
100 employees and over.....	5	1	...	...	...	...	...	...	1	...	...	1	1	1	...	...	...	...	...	...	...
Morgan:																					
1 to 19 employees.....	21	7	...	...	...	1	...	...	6	...	...	...	...	1	1	2	1	...	...	...	2
20 to 99 employees.....	4	2	...	...	...	...	...	...	1	...	...	...	...	...	...	1	...	...	...	...	...
100 employees and over.....	6	1	...	...	1	...	...	...	2	...	...	...	...	...	...	1	...	...	...	...	1
Moultrie:																					
1 to 19 employees.....	11	4	...	...	...	1	...	...	6	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
Ogle:																					
1 to 19 employees.....	34	11	...	...	...	4	...	...	9	...	...	...	...	2	1	...	6	1	...	...	...
20 to 99 employees.....	15	3	...	1	1	...	2	...	2	...	...	...	...	...	...	2	2	...	...	...	2
100 employees and over.....	8	2	...	1	...	...	1	...	2	...	...	...	...	...	...	...	2	...	...	...	...
Peoria:																					
1 to 19 employees.....	159	43	1	...	1	10	6	3	41	7	...	1	...	4	2	6	16	6	1	4	7
20 to 99 employees.....	57	16	...	1	1	1	1	2	6	2	...	...	...	2	4	12	3	2	1	...	3
100 employees and over.....	26	8	...	...	2	2	...	3	3	2	...	...	...	...	2	1	3	...	...	...	...
Perry:																					
1 to 19 employees.....	18	5	...	1	1	7	...	...	3	...	...	...	...	...	...	...	1	...	...	...	...
20 to 99 employees.....	3	1	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	3	1	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Piatt:																					
1 to 19 employees.....	15	2	...	...	...	1	...	...	6	1	...	...	...	...	...	1	2	...	...	...	2
20 to 99 employees.....	2	...	...	...	...	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
Pike:																					
1 to 19 employees.....	24	8	...	...	...	8	...	...	6	...	...	...	...	1	...	...	...	...	...	...	1
20 to 99 employees.....	2	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	1	...	...	...
Pope:																					
1 to 19 employees.....	2	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Pulaski:																					
1 to 19 employees.....	3	...	1	...	...	2	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	3	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
100 employees and over.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Putnam:																					
1 to 19 employees.....	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Randolph:																					
1 to 19 employees.....	20	4	1	2	...	5	...	...	5	...	...	...	...	...	...	...	3	...	...	...	...
20 to 99 employees.....	6	2	...	...	2	...	...	...	1	...	...	...	...	...	...	1	...	...	...	...	...
100 employees and over.....	6	...	...	1	1	...	...	...	1	...	...	...	2	...	...	1	...	...	...	...	...
Richland:																					
1 to 19 employees.....	7	3	...	...	...	...	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	3	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees.....	2	...	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
Rock Island:																					
1 to 19 employees.....	120	29	...	...	1	6	6	...	16	4	...	...	...	4	14	10	21	2	4	...	3
20 to 99 employees.....	39	13	...	...	1	2	...	...	1	...	...	...	...	1	2	6	10	...	2	1	...
100 employees and over.....	39	2	...	...	2	1	...	1	3	...	...	3	...	...	4	2	17	1	...	...	3
St. Clair:																					
1 to 19 employees.....	147	40	2	1	4	10	3	1	27	6	...	1	...	7	5	18	16	2	2	...	2
20 to 99 employees.....	66	21	...	2	2	1	...	4	5	5	1	...	...	4	5	7	5	1	1	...	2
100 employees and over.....	38	8	...	...	2	...	...	...	...	7	2	1	3	1	6	5	2	...	...	...	1
Saline:																					
1 to 19 employees.....	14	6	...	...	...	2	...	...	3	...	...	...	...	3	...	...	...	...	...	...	...
20 to 99 employees.....	8	4	...	...	1	1	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...
Sangamon:																					
1 to 19 employees.....	106	27	...	1	1	6	3	2	23	5	...	1	...	6	2	10	8	4	2	2	3
20 to 99 employees.....	33	9	...	...	1	3	2	...	7	3	...	...	...	1	1	2	1	1	...	...	2
100 employees and over.....	16	3	...	...	...	...	...	...	1	...	...	...	1	1	...	3	5	2	...	...	...
Schuyler:																					
1 to 19 employees.....	5	1	...	...	...	2	...	...	1	...	...	...	...	...	...	...	...	...	1	...	...
20 to 99 employees.....	2	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Scott:																					
1 to 19 employees.....	2	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	2	...	...	...	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Shelby:																					
1 to 19 employees.....	12	5	...	...	...	1	...	...	3	...	...	...	...	...	1	1	1	...	...	...	...
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1
Stark:																					
1 to 19 employees.....	8	...	...	...	...	1	...	...	4	1	...	...	1	...	1	...	...	...	...	...	...
20 to 99 employees.....	3	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	...	...	...

## MANUFACTURES—AREA STATISTICS

Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954—Continued  
(Counties and size classes in which no manufacturing establishments were reported are omitted)

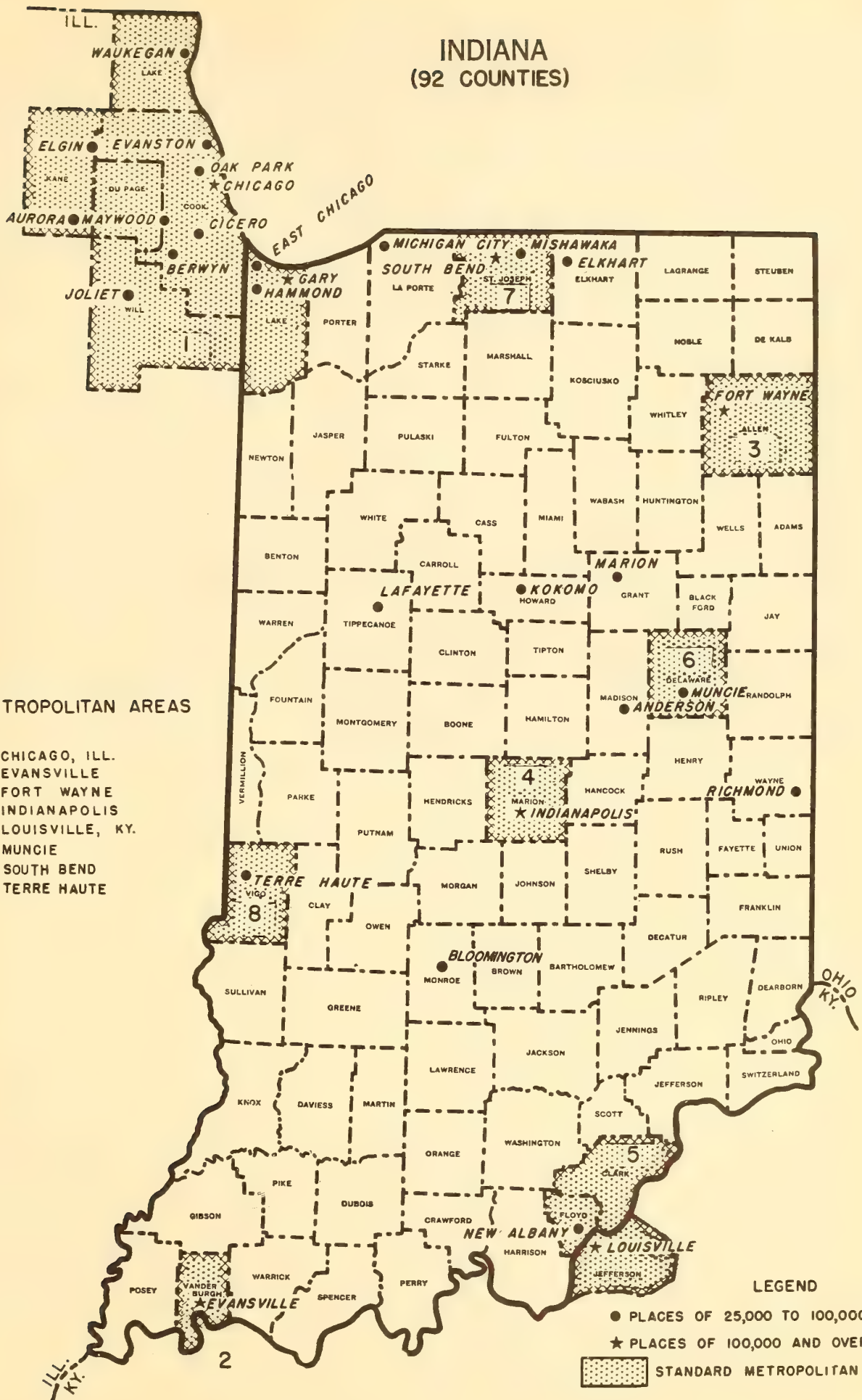
State, county, and size class	Establish- ments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Stephenson:																					
1 to 19 employees.....	47	29	...	...	...	2	...	...	4	1	...	...	...	2	3	1	2	...	...	...	...
20 to 99 employees.....	15	4	...	...	...	...	...	1	3	1	...	...	...	...	1	2	1	1	...	...	...
100 employees and over.....	7	...	...	...	...	...	...	...	...	2	...	...	...	...	...	1	...	3	...	...	...
Tazewell:																					
1 to 19 employees.....	47	7	...	...	3	4	1	...	7	1	...	1	...	4	1	4	9	1	1	1	...
20 to 99 employees.....	14	1	...	...	...	2	...	1	1	...	...	...	...	3	3	1	1	...	...	...	...
100 employees and over.....	10	5	...	...	...	...	...	...	...	...	...	...	...	1	...	...	4	...	...	...	...
Union:																					
1 to 19 employees.....	14	2	...	...	...	6	...	...	4	1	...	...	...	...	...	...	1	...	...	...	...
20 to 99 employees.....	6	2	...	...	...	3	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
Vermilion:																					
1 to 19 employees.....	67	17	...	1	1	5	...	...	11	1	...	...	...	4	1	9	8	6	...	...	...
20 to 99 employees.....	35	11	...	...	5	...	...	1	4	3	1	1	...	2	...	...	3	1	...	1	...
100 employees and over.....	23	3	...	...	2	...	...	...	3	1	...	...	...	1	2	1	5	2	...	1	...
Wabash:																					
1 to 19 employees.....	7	1	...	...	...	2	...	...	...	...	...	...	...	2	...	...	1	...	...	...	...
20 to 99 employees.....	4	1	...	...	...	...	...	2	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	...	...	...
Warren:																					
1 to 19 employees.....	14	3	...	...	...	1	...	...	5	...	...	...	...	...	...	...	2	...	1	...	...
20 to 99 employees.....	8	4	...	...	...	...	...	...	1	1	...	...	...	...	...	...	2	...	...	...	...
100 employees and over.....	2	...	...	...	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Washington:																					
1 to 19 employees.....	22	6	...	...	...	10	...	...	4	...	...	...	1	...	...	...	1	...	...	...	...
20 to 99 employees.....	4	1	...	...	...	...	...	...	...	...	...	...	2	...	...	...	1	...	...	...	...
Wayne:																					
1 to 19 employees.....	10	3	...	...	...	4	...	...	2	...	...	...	...	...	...	...	1	...	...	...	...
20 to 99 employees.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
White:																					
1 to 19 employees.....	15	5	...	...	...	3	...	...	3	...	...	...	...	1	1	1	...	...	...	...	...
20 to 99 employees.....	5	...	...	...	2	...	1	...	1	...	...	...	...	...	...	...	1	...	...	...	...
100 employees and over.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Whiteside:																					
1 to 19 employees.....	37	11	...	...	...	2	...	...	8	1	...	...	...	3	1	5	5	...	1	...	...
20 to 99 employees.....	20	2	...	...	1	...	1	...	1	1	...	...	...	...	3	5	4	1	1	...	...
100 employees and over.....	11	...	...	...	...	...	...	...	...	...	...	...	...	...	2	5	2	...	...	1	...
Will:																					
1 to 19 employees.....	111	20	1	...	4	8	2	4	15	5	1	...	...	8	6	8	10	4	4	1	10
20 to 99 employees.....	54	12	...	...	2	2	...	9	7	2	1	...	...	3	3	5	4	1	2	...	1
100 employees and over.....	34	...	...	...	2	...	...	4	2	2	6	1	...	4	3	3	4	2	1	...	...
Williamson:																					
1 to 19 employees.....	34	11	...	...	...	6	1	...	5	1	...	...	...	1	1	2	2	1	...	...	...
20 to 99 employees.....	8	...	...	...	1	2	...	...	1	...	...	...	...	...	...	1	1	2	...	...	...
100 employees and over.....	4	...	...	1	1	...	...	...	...	...	...	...	...	...	...	1	1	...	...	...	...
Winnebago:																					
1 to 19 employees.....	259	29	...	1	6	14	7	2	37	4	...	...	...	11	6	41	87	2	1	...	11
20 to 99 employees.....	111	11	...	2	2	1	10	3	4	2	...	...	3	2	11	17	30	1	4	2	6
100 employees and over.....	69	3	...	2	...	...	5	1	1	2	...	...	...	...	4	13	24	1	6	2	5
Woodford:																					
1 to 19 employees.....	16	4	...	...	...	1	...	...	6	1	...	...	...	2	...	1	1	...	...	...	...
20 to 99 employees.....	6	3	...	...	1	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...
100 employees and over.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

# INDIANA (92 COUNTIES)

## STANDARD METROPOLITAN AREAS

### CODE

- 1 CHICAGO, ILL.
- 2 EVANSVILLE
- 3 FORT WAYNE
- 4 INDIANAPOLIS
- 5 LOUISVILLE, KY.
- 6 MUNCIE
- 7 SOUTH BEND
- 8 TERRE HAUTE





## MANUFACTURES—AREA STATISTICS

Table 1.—MANUFACTURING EMPLOYMENT AT OPERATING ESTABLISHMENTS AND CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARIES FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS

(This table includes data for all manufacturing employees including those located in central administrative offices and auxiliaries. Tables 2-7 in this report include data for operating establishments only. For explanation of column captions see Introduction)

State, standard metropolitan areas, and year <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	(Number)	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
Indiana:						
1954.....	587,782	2,532,422	582,803	2,504,411	4,979	28,011
1953 <sup>2</sup> .....	686,736	2,903,853	679,399	2,869,657	7,337	34,196
1952 <sup>2</sup> .....	611,687	2,444,256	604,949	2,419,456	<sup>3</sup> 6,738	<sup>3</sup> 24,800
1951 <sup>2</sup> .....	598,303	2,285,724	591,565	2,260,924	6,738	24,800
1950 <sup>2</sup> .....	563,730	1,958,091	558,370	1,938,651	5,360	19,440
1949 <sup>2</sup> .....	512,956	1,680,020	506,350	1,658,144	6,606	21,876
1954						
Standard metropolitan areas:						
Chicago <sup>4</sup> .....	983,460	4,513,579	942,819	4,256,393	40,641	257,186
Evansville <sup>5</sup> .....	32,623	137,448	32,562	137,178	61	270
Fort Wayne <sup>6</sup> .....	35,187	162,240	33,012	149,898	2,175	12,342
Indianapolis <sup>7</sup> .....	103,147	469,429	102,233	464,243	914	5,186
Louisville <sup>8</sup> .....	88,539	375,510	84,653	354,192	3,886	21,318
Muncie <sup>9</sup> .....	17,459	79,805	17,453	79,788	6	17
South Bend <sup>10</sup> .....	43,622	201,674	43,622	201,674	...	...
Terre Haute <sup>11</sup> .....	10,455	40,821	10,419	40,677	36	144

<sup>1</sup>Employment data for administrative offices and auxiliaries on a State basis are not available for the years prior to 1949. Similar data for standard metropolitan areas are available only for 1954.<sup>2</sup>The employment figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period. The employment figures for administrative and auxiliary units were compiled chiefly from Bureau of Old-Age and Survivors Insurance records and are not strictly comparable with the figures for these units that were collected by the Bureau of the Census for the year 1954.<sup>3</sup>The 1951 data are shown for 1952 since auxiliary and administrative unit data were not collected in 1952.<sup>4</sup>The Chicago Standard Metropolitan Area consists of Lake County, Indiana; Cook, Du Page, Kane Lake and Will Counties, Illinois.<sup>5</sup>The Evansville Standard Metropolitan Area consists of Vanderburgh County, Indiana.<sup>6</sup>The Fort Wayne Standard Metropolitan Area consists of Allen County, Indiana.<sup>7</sup>The Indianapolis Standard Metropolitan Area consists of Marion County, Indiana.<sup>8</sup>The Louisville Standard Metropolitan Area consists of Clark and Floyd Counties, Indiana; Jefferson County, Kentucky.<sup>9</sup>The Muncie Standard Metropolitan Area consists of Delaware County, Indiana.<sup>10</sup>The South Bend Standard Metropolitan Area consists of St. Joseph County, Indiana.<sup>11</sup>The Terre Haute Standard Metropolitan Area consists of Vigo County, Indiana.

Table 2.—GENERAL STATISTICS FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Year	Establish- ments, number	All employees		Production workers		Value added by manufacture (\$1,000)				
		Number	Payroll (\$1,000)	Number	Wages (\$1,000)					
	INDIANA									
1954 <sup>1</sup> .....	6,355	{	582,803	2,504,411	457,965	1,796,754	4,625,477			
1953 <sup>2</sup> .....			679,399	2,869,657	553,928	2,180,370	5,205,348			
1952 <sup>2</sup> .....			604,949	2,419,456	491,750	1,826,933	4,523,533			
1951 <sup>2</sup> .....			591,565	2,260,924	487,909	1,735,432	4,278,222			
1950 <sup>2</sup> .....			558,370	1,938,651	461,334	1,485,702	3,832,892			
1949 <sup>2</sup> .....	5,403	{	506,350	1,658,144	414,857	1,254,500	3,059,100			
1947.....			548,260	1,582,837	457,544	1,232,189	2,969,961			
1939.....			4,192	337,869	474,099	342,652	964,746			
1937.....			3,939	356,923	495,597	313,342	402,117	1,018,980		
1935.....			3,917	285,282	331,510	248,196	257,802	703,246		
1933.....	3,373	{	(NA)	(NA)	{	198,940	172,055	470,270		
1931.....	4,097					212,614	232,319	637,233		
1929.....	5,091					314,698	418,771	1,136,463		
1927.....	4,726					280,717	375,218	926,311		
1925.....	4,772					280,854	365,003	867,062		
1923.....	4,909	{	(NA)	(NA)	{	291,131	374,510	841,605		
1921.....	5,109					206,534	251,456	551,375		
1919.....	7,558					332,362	400,942	276,695	721,736	
1914.....	7,952					225,802	155,689	197,292	119,114	306,635
1909.....	7,969					210,589	121,816	186,984	95,511	244,700
1904.....	7,044	169,036	87,087	154,174	72,058	173,447				
1899.....	7,128	149,464	69,251	139,017	59,280	141,909				
CHICAGO STANDARD METROPOLITAN AREA										
1954 <sup>1</sup> .....	13,456	942,819	4,256,393	718,642	2,897,563	7,893,423				
1947.....	12,285	946,041	2,995,636	756,275	2,177,440	5,529,227				
1939.....	9,058	609,940	941,363	478,126	632,529	1,896,111				
1929.....	11,693	636,464	1,137,863	527,677	830,322	2,477,970				
1919.....	12,399	(NA)	(NA)	520,133	677,238	1,670,150				
INDIANAPOLIS STANDARD METROPOLITAN AREA										
1954 <sup>1</sup> .....	1,102	102,233	464,243	74,681	302,764	844,783				
1947.....	943	92,259	278,506	72,827	197,989	483,375				
1939.....	784	50,666	73,782	38,705	47,989	138,633				
1929.....	902	55,504	84,492	46,339	60,158	178,962				
1919.....	1,028	(NA)	(NA)	52,142	55,083	135,701				
LOUISVILLE STANDARD METROPOLITAN AREA										
1954 <sup>1</sup> .....	814	84,653	354,192	66,502	252,962	845,031				
1947.....	744	73,853	193,837	60,878	144,248	489,435				
1939.....	641	39,770	46,757	35,009	35,581	128,466				
1929.....	822	49,459	65,304	42,303	48,399	153,178				
1919.....	979	(NA)	(NA)	35,238	34,165	90,721				
SOUTH BEND STANDARD METROPOLITAN AREA										
1954 <sup>1</sup> .....	330	43,622	201,674	33,025	140,295	320,106				
1947.....	259	44,139	144,419	37,158	117,504	234,908				
1939.....	194	24,178	36,930	20,819	29,592	71,555				
1929.....	236	35,032	52,915	31,400	43,691	98,430				
1919.....	277	(NA)	(NA)	19,957	23,206	50,606				

NA Not available.

<sup>1</sup>The 1954 figures include data for establishments engaged in the processing and distribution of fluid milk, Industry Group 202, Dairy Products. These establishments were not included in the figures for the Annual Survey years 1949-1953 or earlier Census years. In addition, the 1954 Census and Annual Survey years include data for Logging Camps and Contractors, Industry 2411, which were not included within the scope of the 1947 Census. See footnotes to Table 4 for comparable 1954 and 1947 totals. There were also a number of changes in the definition of manufacturing industries during earlier Census years that affect the comparability of the historical series. Among the more important of these were: figures for 1935 and later years exclude data for "Railroad repair shops" and "Manufactured gas" which were included in 1899-1933 figures; the minimum size of establishment included for 1954 and 1947 was one employee, for 1939-1921 manufacturing establishments reporting value of shipments of \$5,000 or more were within scope whereas for 1919 and earlier years the cutoff was \$500. (This change in procedure has not appreciably affected the comparability of the historical data except for the figures on number of establishments.)

<sup>2</sup>The employment and payroll figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period.

## MANUFACTURES—AREA STATISTICS

Table 3.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
Indiana, total.....	3,934,224	6,355	582,803	2,504,411	457,965	902,354	1,796,754	4,625,477	301,247	1548,260	12,969,961
STANDARD METROPOLITAN AREAS											
Chicago.....	5,495,364	13,456	942,819	4,256,393	718,642	1,419,045	2,897,563	7,893,423	427,396	946,041	5,529,227
Portion in Indiana.....	368,152	361	99,288	476,433	79,518	152,436	359,062	965,314	100,928	92,890	587,378
Portion in Illinois.....	5,127,212	13,095	843,531	3,779,960	639,124	1,266,609	2,538,501	6,928,109	326,468	853,151	4,941,849
Evansville.....	160,422	219	32,562	137,178	24,956	48,234	94,373	238,222	7,624	29,053	138,922
Fort Wayne.....	183,722	308	33,012	149,898	23,668	47,353	97,439	282,154	11,785	38,953	224,305
Indianapolis.....	551,777	1,102	102,233	464,243	74,681	150,971	302,764	844,783	48,209	92,259	483,375
Louisville.....	576,900	814	84,653	354,192	66,502	135,815	252,962	845,031	90,958	73,853	489,435
Portion in Indiana.....	92,285	115	14,123	59,105	11,225	23,221	44,460	112,632	6,289	7,885	69,101
Portion in Kentucky.....	484,615	699	70,530	295,087	55,277	112,593	208,502	732,398	84,668	65,968	420,334
Muncie area.....	90,252	164	17,453	79,788	14,174	28,239	59,435	149,534	21,128	17,985	106,008
South Bend area.....	205,058	330	43,622	201,674	33,025	61,276	140,295	320,106	7,552	44,139	234,908
Terre Haute area.....	105,160	159	10,419	40,677	8,031	15,951	28,508	75,688	6,250	9,630	62,213
COUNTIES											
Adams.....	22,393	39	2,262	8,716	1,853	3,728	6,611	19,905	649	2,473	15,674
Allen.....	183,722	308	33,012	149,898	23,668	47,353	97,439	282,154	11,785	38,953	224,305
Bartholomew.....	36,108	84	7,710	31,014	6,125	12,239	22,573	68,110	2,868	6,382	32,374
Benton.....	11,462	9	113	346	91	185	258	663	15	121	648
Blackford.....	14,026	31	1,565	5,557	1,281	2,615	4,153	8,860	869	1,861	8,648
Boone.....	23,993	42	1,668	6,686	1,262	2,530	4,088	11,093	1,066	1,425	7,815
Brown.....	6,209	13	(D)	(D)	75	(D)	(D)	(D)	(D)	13	34
Carroll.....	16,010	26	766	2,227	690	1,379	1,857	4,261	226	656	2,560
Cass.....	38,793	55	3,190	11,113	2,535	4,773	7,823	21,186	432	3,397	15,202
Clark.....	48,330	46	9,866	45,321	7,807	16,600	34,933	92,536	4,865	3,974	53,969
Clay.....	23,918	32	1,432	4,969	1,252	2,378	4,051	7,240	406	1,524	6,486
Clinton.....	29,734	31	2,124	7,635	1,765	3,659	5,714	12,288	625	1,842	8,383
Crawford.....	9,289	16	169	357	154	286	301	467	15	79	157
Daviess.....	26,762	22	940	3,155	750	1,553	2,428	5,343	123	1,383	4,093
Dearborn.....	25,141	40	4,288	15,226	3,607	5,885	11,638	52,973	1,252	5,228	71,661
Decatur.....	18,218	27	525	1,653	435	875	1,201	3,389	397	324	1,406
De Kalb.....	26,023	69	2,733	10,437	2,140	4,082	6,985	17,199	1,011	2,490	11,147
Delaware.....	90,252	164	17,453	79,788	14,174	28,239	59,435	149,534	21,128	17,985	106,008
Dubois.....	23,785	83	3,262	9,928	2,835	5,878	7,864	15,709	489	3,069	13,180
Elkhart.....	84,512	317	17,153	73,652	13,636	27,057	51,597	153,876	5,708	15,478	83,167
Fayette.....	23,391	24	5,830	23,373	4,869	8,879	18,195	35,678	2,644	6,521	39,594
Floyd.....	43,955	69	4,256	13,784	3,418	6,620	9,527	20,096	1,424	3,911	15,132
Fountain.....	17,836	14	968	3,800	832	1,666	3,031	4,880	120	1,369	3,915
Franklin.....	16,034	14	481	1,532	412	828	1,187	2,655	96	290	1,427
Fulton.....	16,565	26	729	2,340	570	1,163	1,678	5,719	240	631	2,465
Gibson.....	30,720	31	1,823	7,014	1,502	2,984	5,275	10,860	742	1,146	6,134
Grant.....	62,156	125	10,979	42,040	9,038	17,877	31,389	70,316	6,406	10,688	54,615
Greene.....	27,886	33	703	2,038	590	1,084	1,523	4,221	179	520	2,068
Hamilton.....	28,491	39	2,352	9,133	2,029	4,009	7,502	15,964	1,432	2,646	9,844
Hancock.....	20,332	32	552	1,851	471	890	1,319	3,825	153	439	1,438
Harrison.....	17,858	20	415	1,222	335	669	875	2,108	78	433	2,536
Hendricks.....	24,594	24	149	443	123	248	361	721	68	89	225
Henry.....	45,505	56	4,639	20,668	3,936	7,972	16,917	32,558	1,082	5,769	25,233
Howard.....	54,498	87	13,498	57,283	11,404	22,750	45,111	92,110	5,203	11,626	51,022
Huntington.....	31,400	68	3,729	12,956	2,894	5,622	8,666	22,373	809	3,921	17,671
Jackson.....	28,237	47	3,168	9,839	2,725	5,491	7,811	18,699	726	3,283	13,584
Jasper.....	17,031	18	265	835	204	451	595	1,732	144	150	467
Jay.....	23,157	39	3,193	11,644	2,697	5,294	9,054	17,600	1,109	3,343	14,346
Jefferson.....	21,613	25	671	2,034	513	1,063	1,327	3,264	134	953	4,170
Jennings.....	15,250	14	454	1,371	413	823	1,159	2,390	104	481	1,412
Johnson.....	26,183	38	2,049	7,134	1,807	4,036	5,897	14,835	629	1,564	7,534
Knox.....	43,415	49	2,031	7,415	1,762	3,457	5,957	13,402	488	1,814	8,451
Kosciusko.....	33,002	108	2,968	11,175	2,398	4,828	8,196	22,878	1,084	2,489	11,872
Lagrange.....	15,347	22	169	544	133	277	375	1,109	232	185	813
Lake.....	368,152	361	99,288	476,433	79,518	152,436	359,062	965,314	100,928	92,890	587,378
La Porte.....	76,808	157	15,921	66,351	11,899	23,954	46,030	111,083	4,536	13,663	70,778
Lawrence.....	34,346	46	4,939	18,884	4,253	8,199	15,076	28,780	855	2,956	12,314
Madison.....	103,911	150	25,725	114,815	21,408	43,739	90,739	206,088	15,584	26,048	125,395
Marion.....	551,777	1,102	102,233	464,243	74,681	150,971	302,764	844,783	48,209	92,259	483,375
Marshall.....	29,468	71	1,710	6,037	1,370	2,805	4,453	10,562	595	2,161	8,916
Martin.....	10,678	17	228	663	205	465	552	1,015	47	616	1,762
Miami.....	28,201	67	2,451	8,081	2,231	4,320	6,296	14,271	559	2,978	12,499
Monroe.....	50,080	63	6,309	21,579	5,710	11,427	18,330	51,700	1,328	3,386	14,150
Montgomery.....	29,122	39	2,336	11,648	2,324	4,882	8,940	19,085	1,023	2,569	10,923
Morgan.....	23,726	43	821	2,667	699	1,414	2,038	4,803	269	761	2,494

See footnotes at end of table.



Table 3.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
Newton.....	11,006	15	436	1,048	338	678	770	2,091	427	287	810
Noble.....	25,075	66	2,868	9,193	2,361	4,432	6,933	13,569	1,019	2,324	9,167
Ohio.....	4,223	4	65	157	55	92	133	234	...	119	323
Orange.....	16,879	31	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Owen.....	11,763	16	174	476	156	305	398	899	15	228	496
Parke.....	15,674	18	276	892	247	472	732	2,349	56	284	911
Perry.....	17,367	29	3,439	10,336	3,119	5,639	8,731	19,266	423	3,158	11,763
Pike.....	14,995	12	67	161	54	129	123	210	38	53	(D)
Porter.....	40,076	53	2,228	8,912	1,659	3,329	5,853	15,558	1,025	2,077	10,438
Posey.....	19,818	20	429	1,504	342	698	1,098	3,650	195	418	3,581
Pulaski.....	12,493	19	292	726	252	489	548	1,387	104	239	838
Putnam.....	22,950	17	691	2,561	532	1,057	1,844	6,528	2,777	530	2,915
Randolph.....	27,141	53	3,695	13,054	3,153	5,966	10,360	21,974	2,139	2,976	12,294
Ripley.....	18,763	38	1,522	5,602	1,244	2,499	3,626	10,203	314	1,043	3,862
Rush.....	19,799	27	1,001	3,414	840	1,742	2,686	8,161	427	1,163	5,805
St. Joseph.....	205,058	330	43,622	201,674	33,025	61,276	140,295	320,106	7,552	44,139	234,908
Scott.....	11,519	16	1,286	3,687	1,191	2,364	3,090	7,279	1,126	1,483	(D)
Shelby.....	28,026	60	2,721	8,518	2,284	4,380	6,301	11,491	765	2,816	11,346
Spencer.....	16,174	19	237	651	207	425	520	1,098	95	292	1,024
Starke.....	15,282	20	254	632	214	408	486	814	47	222	800
Steuben.....	17,087	37	565	2,142	470	927	1,687	4,459	196	411	2,451
Sullivan.....	23,667	16	174	402	155	274	348	622	59	221	625
Switzerland.....	7,599	5	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Tippecanoe.....	74,473	68	8,293	35,800	6,335	12,545	23,983	67,303	8,067	6,980	37,936
Tipton.....	15,566	26	953	3,266	766	1,525	2,341	6,436	458	989	5,256
Union.....	6,412	6	100	283	74	121	179	308	122	124	961
Vanderburgh.....	160,422	219	32,562	137,178	24,956	48,234	94,373	238,222	7,624	29,053	138,922
Vermillion.....	19,723	25	1,971	9,171	1,433	2,872	5,899	15,276	71	506	1,856
Vigo.....	105,160	159	10,419	40,677	8,031	15,951	28,508	75,688	6,250	9,630	62,213
Wabash.....	29,047	66	4,454	17,024	3,691	7,370	12,659	31,531	1,252	4,351	17,517
Warren.....	8,535	4	10	18	8	16	13	34	(D)	13	42
Warrick.....	21,527	20	339	797	276	512	608	971	38	213	889
Washington.....	16,520	30	1,055	2,845	951	1,924	2,360	4,262	337	756	2,030
Wayne.....	68,566	125	12,697	53,855	9,609	19,929	37,636	91,025	3,814	13,559	72,065
Wells.....	19,564	35	1,170	4,524	964	2,018	3,252	7,809	451	793	3,603
White.....	18,042	22	1,172	3,769	1,091	2,146	3,342	4,704	153	1,027	2,699
Whitley.....	18,828	37	1,650	5,660	1,411	2,695	4,171	9,916	444	1,275	6,635
CITIES WITH 10,000 INHAB- ITANTS OR MORE											
Anderson.....	46,820	76	22,993	104,406	19,159	39,165	82,767	186,127	14,279	22,889	112,329
Bedford.....	12,562	30	4,076	15,913	3,477	6,690	12,571	22,754	660	2,033	7,249
Bloomington.....	28,163	38	4,613	16,006	4,145	8,150	13,545	44,429	875	2,912	12,187
Columbus.....	18,370	72	7,564	30,559	5,996	11,977	22,195	67,329	2,801	5,976	(D)
Connersville.....	15,550	17	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Crawfordsville.....	12,851	22	2,547	10,755	2,096	4,428	8,278	17,676	936	2,373	10,373
East Chicago.....	54,263	75	41,590	199,300	33,591	65,236	153,417	417,877	44,159	38,439	264,577
Elkhart.....	35,646	146	11,436	51,503	8,907	17,568	35,313	118,825	3,743	9,962	59,089
Elwood.....	11,362	35	1,310	4,672	1,073	2,190	3,547	7,919	650	1,169	4,946
Evansville.....	128,636	198	27,294	(D)	20,815	(D)	(D)	(D)	(D)	25,378	140,490
Fort Wayne.....	133,607	238	23,875	106,459	17,479	34,973	70,903	194,278	8,729	30,849	(D)
Frankfort.....	15,028	21	1,565	5,345	1,353	2,818	4,199	8,847	355	1,186	5,214
Gary.....	133,911	105	36,754	(D)	30,300	(D)	(D)	(D)	(D)	34,542	(D)
Goshen.....	13,003	55	2,771	10,399	2,337	4,626	8,025	17,105	866	3,910	16,689
Hammond.....	87,594	110	10,415	47,697	7,835	14,931	32,441	102,314	4,401	9,063	80,698
Hobart.....	10,244	6	118	338	90	185	292	482	40	(NA)	(NA)
Huntington.....	15,079	41	3,066	10,819	2,365	4,543	7,190	18,870	737	3,075	14,520
Indianapolis.....	427,173	998	75,953	325,714	56,918	114,489	221,030	594,503	32,313	79,415	429,543
Jeffersonville.....	14,685	18	680	2,535	522	1,013	1,897	4,534	322	872	(D)
Kokomo.....	38,672	74	13,421	56,979	11,357	22,648	44,965	91,659	5,153	11,090	48,517
La Fayette.....	35,568	41	2,255	9,157	1,660	3,129	6,117	17,012	1,024	2,425	17,148
La Porte.....	17,882	54	6,279	26,570	4,581	9,148	18,290	43,252	2,251	6,781	37,482
Logansport.....	21,031	34	2,950	10,571	2,356	4,420	7,422	19,928	328	2,764	11,737
Marion.....	30,081	79	9,179	35,307	7,492	14,808	26,013	51,891	5,672	8,243	39,484
Michigan City.....	28,395	69	6,398	25,560	5,021	10,163	18,576	49,440	1,878	6,428	31,096
Mishawaka.....	32,913	58	7,675	34,999	5,911	11,960	24,841	63,295	2,461	9,157	41,723
Muncie.....	58,479	130	16,776	77,362	13,628	27,127	57,769	145,782	20,918	12,884	71,212
New Albany.....	29,346	62	3,012	9,038	2,616	5,342	7,047	12,570	1,312	3,474	(D)
New Castle.....	18,271	25	3,778	17,818	3,175	6,561	14,580	27,591	730	4,994	22,190
Peru.....	13,308	41	1,873	6,445	1,728	3,291	5,004	11,051	498	1,988	8,739

See footnotes at end of table.

## MANUFACTURES--AREA STATISTICS

Table 3.--GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947--Continued  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954							1947		
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
Richmond.....	39,539	89	10,821	46,419	8,478	17,683	33,687	76,722	3,510	11,515	63,652
Shelbyville.....	11,734	43	2,498	8,073	2,091	4,068	5,965	10,783	520	2,195	8,188
South Bend.....	115,911	218	35,372	164,347	26,681	48,411	113,935	253,174	4,649	34,757	191,886
Terre Haute.....	64,214	131	7,264	27,749	5,556	10,810	18,990	47,506	2,326	8,550	56,427
Valparaiso.....	12,028	23	1,792	7,664	1,288	2,631	4,956	12,952	913	(NA)	(NA)
Vincennes.....	18,831	28	1,275	4,182	1,121	2,200	3,385	8,429	277	1,483	6,984
Wabash.....	10,621	28	3,067	12,211	2,497	5,008	9,033	22,548	662	(NA)	(NA)
Washington.....	10,987	11	833	2,877	677	1,391	2,246	4,866	83	(NA)	(NA)
West Lafayette.....	11,873	5	74	233	50	104	135	284	4	(NA)	(NA)

D Withheld to avoid disclosing figures for individual companies.

NA Separate figures are not available, but are included in appropriate totals.

<sup>1</sup>The 1947 data are not strictly comparable with the figures shown for 1954 due to differences in coverage of loggers and fluid milk distributors.  
See discussion in Introduction and footnotes to Table 4.

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947

(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
	All industries, total <sup>1</sup> ...	6,355	2,344	582,803	2,504,411	457,965	902,354	1,796,754	4,625,477	( <sup>2</sup> )	301,247	<sup>3</sup> 548,260	<sup>3</sup> 2,969,961
20	Food and kindred products..	1,207	427	48,543	187,075	34,218	70,945	118,690	391,402	( <sup>2</sup> )	20,405	( <sup>4</sup> )	( <sup>4</sup> )
201	Meat products.....	181	54	11,022	47,004	8,924	19,612	36,814	67,722	( <sup>2</sup> )	3,037	9,308	50,693
2011	Meat packing plants.....	117	32	8,927	40,536	7,040	15,566	31,457	53,189	( <sup>2</sup> )	2,284	8,663	47,268
2013	Prepared meats.....	20	6	825	3,333	769	1,773	3,032	9,093	( <sup>2</sup> )	448	366	2,423
2015	Poultry dressing plants.....	44	16	1,269	3,135	1,114	2,272	2,324	5,439	32,727	303	279	1,002
202	Dairy products.....	318	124	9,559	37,551	5,256	12,211	17,988	72,987	( <sup>2</sup> )	4,609	( <sup>4</sup> )	( <sup>4</sup> )
2021	Creamery butter.....	17	7	375	1,255	263	596	803	2,158	15,357	163	( <sup>4</sup> )	( <sup>4</sup> )
2022	Natural cheese.....	16	11	458	1,599	363	818	1,130	5,966	16,845	205	( <sup>4</sup> )	( <sup>4</sup> )
2023	Concentrated milk.....	13	8	587	2,082	491	1,115	1,665	5,631	26,060	246	( <sup>4</sup> )	( <sup>4</sup> )
2024	Ice cream and ices.....	66	12	957	3,247	545	1,149	1,588	8,485	17,997	585	( <sup>4</sup> )	( <sup>4</sup> )
2027	Fluid milk and other products..	174	83	6,759	27,876	3,336	7,934	11,983	48,011	141,715	3,151	( <sup>4</sup> )	( <sup>4</sup> )
203	Canned and frozen foods.....	127	68	5,120	13,312	4,595	9,156	11,050	28,124	( <sup>2</sup> )	1,053	8,199	32,041
2033	Canned fruits and vegetables...	99	51	3,953	9,947	3,574	7,128	8,377	22,419	73,812	821	6,576	25,870
204	Grain milk products.....	112	31	3,650	15,506	2,395	5,257	9,201	40,595	( <sup>2</sup> )	2,828	3,102	20,561
2042	Prepared animal feeds.....	76	20	2,180	8,926	1,470	3,251	5,787	24,072	92,780	1,556	1,862	11,408
205	Bakery products.....	195	62	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2051	Bread and related products.....	189	59	6,303	24,593	3,717	7,372	11,753	37,824	74,862	1,749	6,455	(D)
207	Candy and related products...	19	7	836	2,812	689	1,463	2,046	5,502	15,729	122	897	3,977
2071	Confectionery products.....	19	7	836	2,812	689	1,463	2,046	5,502	15,729	122	897	3,977
208	Beverages.....	149	52	7,542	29,419	5,290	9,149	18,201	81,811	( <sup>2</sup> )	4,432	9,108	100,617
2082	Beer and ale.....	7	7	2,009	9,610	1,545	3,017	6,852	20,324	39,020	2,183	3,083	24,436
2085	Distilled liquor.....	5	5	2,865	10,003	2,473	3,699	7,988	44,111	96,056	(D)	3,827	65,081
209	Miscellaneous food products...	105	28	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2095	Flavorings.....	10	2	133	458	69	130	172	1,157	2,267	50	308	1,109
2097	Manufactured ice.....	38	4	405	1,336	238	524	698	1,825	2,311	74	1,412	5,975
2099	Food preparations, n.e.c.....	51	17	1,249	4,144	954	1,884	2,685	14,455	33,747	821	(D)	(D)
21	Tobacco manufactures.....	9	3	910	2,043	856	1,620	1,725	3,291	( <sup>2</sup> )	(D)	1,353	4,108
22	Textile mill products.....	22	14	2,701	8,383	2,168	4,067	5,738	13,608	( <sup>2</sup> )	424	6,577	24,999
225	Knitting mills.....	7	7	1,548	4,790	1,186	2,165	3,046	6,693	( <sup>2</sup> )	255	4,062	15,642
2251	Full-fashioned hosiery mills...	4	4	1,169	3,897	837	1,533	2,271	5,326	14,834	33	2,777	11,470
229	Miscellaneous textile goods..	7	2	497	1,790	410	816	1,288	3,674	( <sup>2</sup> )	72	360	1,387
23	Apparel and related products.....	197	107	15,358	36,537	13,734	24,348	28,761	60,167	( <sup>2</sup> )	964	16,148	57,256
231	Men's and boys' suits and coats.....	4	4	1,493	3,544	1,398	2,453	3,219	4,302	5,258	93	1,729	5,675
2311	Men's and boys' suits and coats	4	4	1,493	3,544	1,398	2,453	3,219	4,302	5,258	93	1,729	5,675
232	Men's and boys' furnishings..	53	42	7,048	16,468	6,290	11,035	12,703	27,968	( <sup>2</sup> )	274	7,984	24,992
2327	Separate trousers.....	9	9	1,069	3,003	964	1,613	2,085	6,174	12,953	87	1,170	4,830
2329	Men's and boys' clothing, nec..	34	25	3,946	8,810	3,506	6,224	6,829	15,865	36,443	121	3,915	10,885
233	Women's and misses' outerwear	21	16	2,011	4,543	1,790	3,149	3,633	7,143	( <sup>2</sup> )	68	2,370	11,768
2334	Dresses, dozen price.....	12	9	1,228	2,828	1,117	1,936	2,269	4,532	8,644	35	1,092	3,788
2337	Women's suits, coats and skirts	4	3	274	546	260	484	497	707	966	26	(D)	(D)
234	Women's undergarments.....	10	9	1,006	1,840	938	1,538	1,611	5,606	( <sup>2</sup> )	102	1,113	4,893
236	Children's outerwear.....	7	7	420	962	385	685	712	1,423	( <sup>2</sup> )	47	(D)	(D)
238	Miscellaneous apparel.....	22	14	1,683	3,977	1,529	2,767	3,283	6,024	( <sup>2</sup> )	62	1,399	3,944
2382	Fabric work gloves.....	14	11	1,031	2,003	972	1,714	1,755	2,528	5,448	39	1,369	(D)
239	Fabricated textile, n.e.c....	80	15	1,696	5,202	1,401	2,718	3,598	7,700	( <sup>2</sup> )	316	1,342	5,516
2392	House furnishings, n.e.c.....	13	1	104	286	85	166	190	496	902	16	110	315
2393	Textile bags.....	4	2	397	1,290	312	646	909	2,129	6,555	(D)	369	(D)
2394	Canvas products.....	32	9	916	2,790	760	1,502	1,901	3,834	8,764	75	445	(D)
24	Lumber and wood products...	530	106	10,789	35,805	9,000	17,757	25,152	59,078	( <sup>2</sup> )	3,185	( <sup>4</sup> )	( <sup>4</sup> )
242	Lumber and basic products...	329	40	3,094	8,921	2,709	5,356	6,733	15,473	( <sup>2</sup> )	531	2,753	10,308
2421	Sawmills and planing mills....	301	18	1,780	3,924	1,581	2,895	3,294	6,326	10,696	375	1,725	5,339
2422	Veneer mills.....	23	20	1,226	4,802	1,048	2,314	3,280	8,835	15,997	151	924	4,766
243	Millwork and related products	69	26	4,974	19,084	3,887	7,735	12,335	30,949	( <sup>2</sup> )	2,297	3,463	15,732
2431	Millwork plants.....	44	8	1,107	4,123	898	1,942	3,061	6,629	15,372	474	(D)	(D)
2432	Plywood plants.....	8	7	988	3,117	896	1,872	2,420	3,585	10,090	43	1,700	8,632
2433	Prefabricated wood products...	17	11	2,878	11,844	2,091	3,920	6,853	20,734	58,260	1,778	570	(D)
244	Wooden containers.....	39	15	1,063	2,988	953	1,826	2,355	4,587	( <sup>2</sup> )	176	1,295	4,718
2442	Rattan and willow ware.....	4	3	251	651	220	400	467	1,166	2,151	(D)	260	(D)
2444	Wooden boxes.....	27	9	535	1,632	470	941	1,300	2,734	5,988	98	603	2,559
2445	Cooperage.....	5	1	110	357	103	179	299	268	1,362	(D)	230	1,000
249	Miscellaneous wood products..	69	25	1,609	4,736	1,408	2,775	3,657	7,992	( <sup>2</sup> )	149	1,713	5,667
2491	Wood preserving.....	6	4	223	564	198	363	485	1,322	2,501	15	380	1,405
2499	Wood products, n.e.c.....	58	19	1,177	3,373	1,028	2,054	2,594	5,216	10,195	(D)	1,220	(D)

See footnotes at end of table.



## MANUFACTURES—AREA STATISTICS

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establish- ments, number		All employees		Production workers			Value added by manufacture	Value of shipments	Capital expendi- tures, new	All employees, number	Value added by manufacture
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
25	Furniture and fixtures.....	293	171	22,117	77,158	18,652	36,458	58,540	118,467	(2)	3,970	21,438	84,598
251	Household furniture.....	210	143	19,282	67,013	16,326	31,856	51,071	101,418	(2)	(D)	18,447	71,038
2511	Wood furniture, not upholstered	123	86	11,181	36,286	9,709	18,977	28,699	49,247	95,713	1,240	13,831	49,984
2512	Upholstered household furniture	42	32	3,256	11,265	2,795	5,591	8,500	18,151	36,749	(D)	2,240	8,921
2514	Metal household furniture.....	23	20	4,576	18,595	3,613	6,895	13,312	32,850	66,158	1,708	1,976	10,404
252	Office furniture.....	15	14	1,550	5,296	1,291	2,509	4,014	8,934	(2)	(D)	1,176	6,047
2521	Wood office furniture.....	10	10	1,015	3,300	883	1,738	2,634	5,176	9,308	61	1,176	6,047
2522	Metal office furniture.....	5	4	535	1,996	408	771	1,380	3,757	7,183	(D)	(D)	(D)
253	Public and professional fur- niture.....	19	5	597	2,100	490	1,000	1,484	3,497	(2)	147	1,042	4,248
2541	Partitions and fixtures.....	29	5	487	2,167	401	802	1,613	3,478	6,082	54	497	2,317
26	Pulp, paper and products...	98	61	9,483	37,816	7,564	15,394	26,698	67,408	(2)	5,361	9,020	55,788
261	Pulp, paper and board.....	15	12	1,939	8,174	1,610	3,503	6,388	17,682	(2)	836	2,574	16,071
2641	Paper coating and glazing.....	4	1	104	412	77	155	263	729	2,097	(D)	(D)	(D)
267	Paper board containers.....	39	26	4,818	20,383	3,717	7,533	13,771	33,809	(2)	1,116	4,195	(D)
2671	Paperboard boxes.....	34	24	4,716	20,038	3,629	7,344	13,491	33,213	80,659	1,046	4,195	(D)
2674	Fiber cans, tubes, drums, etc..	5	2	101	345	87	188	279	596	1,260	70	(D)	(D)
269	Pulp, paper and products, n.e.c.....	30	17	1,438	5,099	1,142	2,229	3,468	9,594	(2)	(D)	881	(D)
2691	Die-cut paper and board.....	6	3	271	922	215	450	709	2,245	5,931	(D)	(D)	(D)
2699	Paper and board products, nec..	19	11	858	2,859	680	1,258	1,800	4,439	9,276	82	881	(D)
27	Printing and publishing....	799	155	18,010	76,107	11,581	22,498	47,668	125,331	(2)	5,392	15,680	82,623
2711	Newspapers.....	286	61	7,742	32,162	4,122	7,775	17,819	59,234	80,135	2,458	6,350	37,088
2721	Periodicals.....	24	5	475	1,618	221	443	724	4,107	5,556	163	742	6,267
273	Books.....	31	11	3,145	13,681	2,365	4,736	10,125	19,036	(2)	877	2,574	13,073
2731	Books; publishing and printing.	14	3	538	1,861	175	365	590	2,646	5,730	(D)	220	1,313
2732	Book printing.....	17	8	2,606	11,820	2,190	4,371	9,535	16,389	26,270	(D)	2,354	11,760
2741	Miscellaneous publishing....	24	5	438	1,785	153	294	502	3,445	5,403	194	150	(D)
2751	Commercial printing.....	297	33	3,011	11,724	2,263	4,507	7,951	17,130	28,696	943	3,386	14,641
2761	Lithographing.....	56	20	1,743	8,312	1,385	2,683	5,942	12,374	19,368	528	629	2,794
278	Bookbinding and related in- dustries.....	21	4	477	1,750	310	557	886	3,226	(2)	65	287	941
2781	Bookbinding.....	13	3	235	630	203	342	467	1,015	1,274	26	218	782
279	Printing trade service.....	57	16	966	5,055	751	1,484	3,700	6,742	(2)	161	919	5,249
2791	Typesetting.....	21	5	251	1,337	205	477	1,017	1,844	2,001	61	224	1,304
2792	Engraving and plate printing...	11	1	126	319	107	211	266	534	759	26	121	560
2793	Photoengraving.....	19	7	393	2,342	281	494	1,659	2,923	3,374	41	377	2,380
2794	Electrotyping and stereotyping.	6	3	190	1,052	151	293	750	1,438	1,774	28	197	1,005
28	Chemicals and products.....	242	85	26,298	131,487	17,522	36,250	75,487	343,491	(2)	22,007	20,272	246,144
281	Inorganic chemicals.....	9	4	1,657	9,225	1,165	2,332	5,852	23,506	(2)	3,512	(D)	(D)
282	Organic chemicals.....	11	9	5,172	25,876	4,070	8,617	19,270	41,576	(2)	1,282	712	10,279
283	Drugs and medicines.....	42	14	10,639	56,382	6,513	13,435	27,615	150,562	(2)	8,776	10,260	112,124
2831	Biological products.....	4	3	405	1,623	333	701	1,168	5,015	7,131	(D)	183	(D)
2833	Medicinal chemicals.....	4	2	116	575	106	168	426	1,600	2,397	(D)	1,217	(D)
2834	Pharmaceutical preparations....	34	9	10,118	54,184	6,073	12,566	26,021	143,946	197,160	6,870	8,811	(D)
284	Soap and related products....	28	8	3,561	16,925	2,178	4,383	9,592	74,413	(2)	2,877	3,805	78,579
2841	Soap and glycerin.....	7	3	2,950	14,347	1,906	3,842	8,703	67,182	119,501	(D)	3,350	(D)
2842	Cleaning and polishing products	21	5	611	2,577	272	541	888	7,230	12,014	(D)	452	(D)
285	Paints and allied products...	31	12	1,346	7,007	715	1,337	2,526	12,296	(2)	392	1,746	13,043
287	Fertilizers.....	26	15	1,026	4,217	842	1,906	2,976	11,567	(2)	3,215	702	5,139
2871	Fertilizers.....	9	9	638	2,608	536	1,175	1,875	6,883	27,271	1,543	327	2,417
2872	Fertilizers, mixing only .....	17	6	388	1,608	306	731	1,101	4,684	19,200	1,671	375	2,722
288	Vegetable and animal oils....	26	9	1,134	4,920	795	1,747	3,166	13,385	(2)	768	746	7,891
2883	Soybean oil mills.....	4	4	650	2,727	497	1,066	1,986	10,785	93,264	577	381	5,575
289	Chemical products, n.e.c.....	69	14	1,759	6,934	1,239	2,490	4,487	16,182	(2)	1,182	1,182	(D)
2896	Compressed and liquefied gases.	14	4	445	2,022	312	684	1,426	4,974	7,766	543	424	(D)
2899	Chemical products, n.e.c.....	32	6	1,041	3,939	739	1,411	2,548	8,614	21,232	492	314	2,125
29	Petroleum and coal products	36	18	15,326	79,517	11,756	22,594	57,813	169,786	(2)	52,993	16,500	113,371
2911	Petroleum refining.....	9	8	10,820	58,471	8,096	15,475	41,999	126,390	639,184	(D)	12,137	78,371
293	Coke and byproducts.....	4	4	3,794	17,797	3,206	6,180	14,034	37,532	172,827	(D)	3,846	30,981
2932	Byproduct coke ovens.....	4	4	3,794	17,797	3,206	6,180	14,034	37,532	172,827	(D)	3,846	30,981
295	Paving and roofing materials.	16	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2952	Roofing felts and coatings.....	7	5	511	2,266	356	747	1,401	3,818	11,727	341	394	(D)
30	Rubber products.....	50	26	14,957	63,987	11,826	23,465	47,098	106,245	(2)	6,167	15,639	63,760
31	Leather and leather goods..	22	11	2,156	5,718	2,032	3,911	5,114	10,762	(2)	132	2,951	10,692
314	Footwear, except rubber.....	7	5	1,579	4,128	1,515	2,906	3,835	8,865	16,046	121	(D)	(D)
3141	Footwear, except rubber.....	7	5	1,579	4,128	1,515	2,906	3,835	8,865	16,046	121	(D)	(D)

See footnotes at end of table.

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954										1947	
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
32	Stone, clay and glass products.....	396	138	23,926	92,806	20,472	40,940	73,813	179,295	(2)	10,845	21,117	105,759
322	Pressed and blown glassware..	17	15	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3229	Pressed and blown glass, n.e.c.	8	6	1,404	5,171	1,225	2,269	4,120	9,617	13,726	291	1,991	8,406
3241	Cement, hydraulic.....	4	4	2,238	9,334	1,875	3,838	7,600	28,895	44,572	1,041	2,223	13,018
325	Structural clay products.....	45	37	3,080	11,028	2,746	5,464	9,055	16,056	(2)	785	2,645	10,511
3251	Brick and hollow tile.....	25	24	1,630	6,016	1,454	2,910	4,948	9,028	12,947	324	1,460	5,335
3259	Structural clay products, nec..	13	6	426	1,334	396	801	1,191	2,072	2,811	53	482	2,075
326	Pottery and related products..	13	5	775	3,179	686	1,335	2,585	7,006	(2)	149	775	5,024
3261	Vitreous plumbing fixtures.....	4	4	641	2,851	561	1,123	2,322	6,556	9,885	138	(D)	(D)
327	Concrete and plaster products	229	29	4,166	16,569	3,248	6,782	11,759	32,006	(2)	(D)	3,299	15,632
3271	Concrete products.....	216	19	2,109	7,866	1,560	3,107	4,924	13,288	22,964	1,885	1,450	5,808
3281	Cut-stone products.....	42	26	2,834	10,913	2,638	5,114	9,638	16,440	22,585	584	1,006	3,915
329	Nonmetallic mineral products, n.e.c.....	31	17	2,240	8,997	1,831	3,662	6,664	19,083	(2)	1,038	(D)	(D)
3292	Asbestos products.....	5	5	883	3,379	681	1,385	2,461	7,491	11,866	317	1,103	4,914
3293	Gaskets & asbestos insulations.	5	3	332	1,332	291	577	926	2,195	3,798	75	(D)	(D)
3295	Minerals: ground or treated....	11	5	222	1,199	195	419	907	3,025	4,681	(D)	44	(D)
33	Primary metal industries...	236	145	86,984	407,640	72,605	140,141	318,862	767,757	(2)	50,002	82,295	449,218
331	Blast furnaces and steel mills.....	12	12	53,539	260,094	44,773	85,533	205,592	522,687	(2)	32,770	49,718	290,500
3312	Blast furnace and steel mills..	12	12	53,539	260,094	44,773	85,533	205,592	522,687	(2)	32,770	(D)	(D)
332	Iron and steel foundries.....	81	65	13,043	55,148	11,481	21,714	45,037	75,305	(2)	3,594	15,279	62,072
3321	Gray-iron foundries.....	69	53	7,124	28,887	6,402	11,715	23,956	38,991	62,728	1,758	8,889	39,496
3322	Malleable-iron foundries.....	6	6	2,196	8,452	3,632	6,679	10,344	17,805	657	681	2,899	9,666
3323	Steel foundries.....	6	6	3,723	17,809	3,198	6,367	14,402	25,969	39,533	1,179	3,491	12,910
335	Nonferrous rolling and drawing.....	8	6	3,969	18,234	2,942	6,009	12,651	41,119	(2)	(D)	3,442	20,770
3361	Nonferrous foundries.....	71	28	5,791	24,234	4,627	9,178	17,555	32,711	68,292	1,417	(D)	(D)
339	Primary metal industries, n.e.c.....	52	29	9,595	45,167	8,030	16,185	35,010	87,636	(2)	6,783	9,152	54,726
3392	Wire drawing.....	15	13	5,490	24,720	4,522	9,283	19,096	53,724	153,910	4,341	6,012	35,545
3399	Primary metal industries, n.e.c	23	6	1,030	5,209	801	1,662	3,638	13,610	47,191	892	801	8,762
34	Fabricated metal products..	643	256	40,941	176,285	32,469	64,766	125,693	299,290	(2)	18,327	40,886	198,848
342	Cutlery, tools, and hardware.	55	23	3,926	16,066	3,072	5,932	10,926	26,436	(2)	1,347	4,969	22,169
3423	Hand tools, n.e.c.....	17	4	438	1,324	376	698	1,026	2,461	4,342	69	529	2,020
3429	Hardware, n.e.c.....	27	16	2,356	9,994	1,808	3,593	6,505	16,804	29,971	745	1,886	9,836
343	Heating and plumbing equipment.....	43	30	4,811	20,504	3,519	7,119	12,919	31,810	(2)	(D)	6,077	30,429
3431	Plumbing fixtures and fittings.	8	5	835	3,346	715	1,510	2,603	5,632	12,577	236	(D)	(D)
3439	Heating and cooking equip., nec	35	25	3,976	17,158	2,803	5,608	10,315	26,178	55,371	(D)	4,983	(D)
344	Structural metal products....	187	55	11,234	52,043	8,264	16,667	34,927	89,619	(2)	3,346	10,563	50,934
3441	Structural and ornamental work.	68	17	5,028	23,861	3,949	8,226	17,044	46,284	87,802	1,245	4,754	24,117
3442	Metal doors, sash, and trim....	40	12	1,835	7,794	1,352	2,757	5,059	12,860	25,076	470	(D)	(D)
3443	Boiler shop products.....	27	10	3,049	13,776	2,039	4,012	8,684	22,086	47,279	1,190	2,147	9,857
3444	Sheet-metal work.....	52	16	1,321	6,612	923	1,671	4,139	8,388	16,938	439	1,046	(D)
346	Metal stamping and coating...	167	57	7,375	30,776	6,150	12,244	22,806	48,602	(2)	2,355	7,027	34,150
3463	Metal stampings.....	78	36	5,370	23,005	4,411	8,813	16,889	37,507	78,386	1,844	4,827	23,540
3468	Plating and polishing.....	72	15	1,116	4,404	959	1,896	3,348	6,343	9,377	330	878	4,207
348	Fabricated wire products.....	48	29	2,382	8,423	2,075	3,970	6,617	15,452	(2)	369	1,777	9,532
349	Metal products, n.e.c.....	125	50	4,846	20,083	3,980	7,846	14,684	34,202	(2)	2,036	3,207	18,000
3493	Steel springs.....	4	3	476	2,151	388	718	1,603	3,863	10,748	(D)	533	4,611
3494	Bolts, nuts, washers, & rivets.	12	10	1,351	5,588	1,117	2,108	4,172	9,553	18,222	(D)	1,477	7,984
3495	Screw machine products.....	69	24	1,512	6,333	1,307	2,654	4,862	10,337	17,154	701	912	4,445
3499	Fabricated metal products, nec.	36	10	1,263	5,146	951	1,905	3,348	9,014	15,532	602	167	(D)
35	Machinery, except electrical.....	868	275	61,143	275,934	47,114	93,094	194,372	480,184	(2)	21,087	75,251	376,415
352	Tractors and farm machinery..	54	32	6,857	29,052	5,161	10,001	20,341	36,417	(2)	2,805	9,243	43,035
3521	Tractors.....	9	6	343	1,269	254	533	809	1,104	3,896	240	203	(D)
3522	Farm machinery (exc. tractors).	45	26	6,513	27,782	4,907	9,468	19,532	35,313	86,874	2,565	(D)	(D)
353	Construction and mining machinery.....	18	13	3,442	14,848	2,671	5,058	10,371	30,073	(2)	889	3,793	19,629
354	Metalworking machinery.....	288	75	7,027	39,507	5,650	12,509	28,885	65,418	(2)	3,337	5,483	31,012
3541	Machine tools.....	17	3	1,585	8,303	1,175	2,476	5,700	17,831	22,767	509	1,722	(D)
3542	Metalworking machinery.....	15	6	411	2,325	311	595	1,447	3,833	6,727	176	784	(D)
3544	Special dies and tools.....	221	61	4,308	25,710	3,609	8,382	19,680	37,553	49,943	2,480	2,977	15,536
3545	Metalworking mach. attachments.	35	5	721	3,167	554	1,055	2,058	6,200	8,051	171		

See footnotes at end of table.



## MANUFACTURES—AREA STATISTICS

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establish- ments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
355	Machinery, except elec- trical—Continued												
	Special-industry machinery, n.e.c.....	51	16	2,213	10,226	1,415	2,759	5,646	19,542	( <sup>2</sup> )	631	3,862	22,257
3551	Food-products machinery.....	17	6	649	2,736	388	777	1,607	6,009	8,007	140	1,269	6,326
3553	Wood working machinery.....	6	4	202	924	148	275	529	1,813	3,274	36	481	3,319
3559	Special-industry mach., n.e.c..	23	3	1,274	6,247	803	1,559	3,251	11,258	16,687	441	1,969	12,122
356	General industrial machinery.	90	52	12,511	56,491	9,538	18,503	39,537	102,108	( <sup>2</sup> )	3,501	15,092	76,958
3561	Pumps and compressors.....	26	11	1,911	8,199	1,216	2,431	4,316	16,141	31,355	586	2,540	12,523
3563	Conveyors.....	10	5	533	2,380	407	846	1,485	4,042	7,214	(D)	615	2,920
3566	Power-transmission equipment...	28	25	8,336	38,287	6,675	12,805	29,121	69,216	99,427	2,429	9,595	50,387
357	Office and store machines....	5	2	100	375	74	149	232	823	( <sup>2</sup> )	12	116	(D)
358	Service and household ma- chines.....	40	22	15,793	67,062	12,619	24,550	49,555	116,746	( <sup>2</sup> )	5,244	26,355	123,712
3585	Refrigeration machinery.....	25	16	14,663	61,929	11,811	22,987	46,716	105,457	( <sup>2</sup> )	4,948	20,672	93,946
3586	Measuring and dispensing pumps.	5	2	887	4,163	630	1,173	2,222	9,175	16,771	167	3,824	21,391
3591	Valves and fittings, exc. plbg..	20	15	2,347	11,127	1,786	3,583	2,769	21,875	37,532	741	1,636	11,369
3592	Fabricated pipe and fittings...	4	2	212	850	186	359	624	1,765	3,627	94	(D)	(D)
3594	Industrial patterns and molds..	75	8	1,105	5,379	936	1,925	4,228	7,773	9,911	543	(D)	(D)
3599	Machine shops.....	215	31	4,922	20,248	3,680	7,155	13,657	34,639	58,660	1,387	4,744	23,121
36	Electrical machinery.....	166	100	67,714	281,420	55,215	110,468	208,203	545,524	( <sup>2</sup> )	25,385	55,143	252,527
361	Electrical industrial appa- ratus.....	56	32	13,634	59,692	10,171	20,451	39,250	104,602	( <sup>2</sup> )	(D)	15,177	63,825
3611	Wiring devices and supplies....	5	3	415	1,875	337	683	1,452	3,278	6,047	238	542	3,027
3614	Motors and generators.....	16	14	9,295	41,570	6,740	13,605	26,784	71,527	110,109	3,637	10,254	(D)
3619	Elec. industrial apparatus, nec	12	8	1,028	3,097	887	1,706	2,345	5,331	10,034	235	735	(D)
3621	Electrical appliances.....	11	4	485	1,609	420	801	1,222	3,933	8,967	49	695	(D)
3631	Insulated wire and cable.....	4	1	368	1,263	315	611	1,025	3,096	14,532	(D)	1,036	(D)
3641	Engine electrical equipment..	13	12	16,243	72,012	14,098	28,767	58,599	129,119	215,656	(D)	14,659	(D)
366	Communication equipment, n.e.c.....	63	45	35,326	139,534	28,827	57,042	102,374	289,392	( <sup>2</sup> )	11,797	21,137	100,405
3661	Radios and related products....	55	37	22,753	90,216	18,337	36,683	65,016	166,990	( <sup>2</sup> )	5,991	18,095	77,244
369	Electrical products, n.e.c....	19	6	1,656	7,309	1,382	2,793	5,731	15,381	( <sup>2</sup> )	1,055	2,432	(D)
3691	Storage batteries.....	7	2	1,453	6,805	1,213	2,511	5,353	14,342	38,010	(D)	1,524	(D)
37	Transportation equipment...	208	121	92,445	433,173	70,946	137,295	308,534	734,346	( <sup>2</sup> )	47,637	79,960	456,906
371	Motor vehicles and equipment.	136	88	55,181	253,943	45,629	86,640	195,488	434,753	( <sup>2</sup> )	(D)	61,871	371,946
372	Aircraft and parts.....	44	22	31,164	154,022	20,637	41,845	93,408	258,172	( <sup>2</sup> )	11,371	8,915	(D)
3722	Aircraft engines.....	21	12	15,623	81,264	10,195	21,564	48,274	147,533	409,565	9,357	8,915	(D)
3729	Aircraft equipment, n.e.c.....	23	10	15,540	72,757	10,441	20,280	45,133	110,638	251,954	2,014	...	...
373	Ships and boats.....	13	3	606	2,303	471	874	1,735	4,007	( <sup>2</sup> )	281	44	(D)
374	Railroad equipment.....	6	5	5,299	22,344	4,048	7,637	17,470	36,340	92,768	(D)	7,215	36,166
3742	Railroad and street cars.....	6	5	5,299	22,344	4,048	7,637	17,470	36,340	92,768	770	7,215	36,166
38	Instruments and related products.....	42	19	2,837	10,537	2,292	4,395	7,648	23,257	( <sup>2</sup> )	906	2,611	10,474
3821	Mech. measuring instruments..	8	4	1,642	6,303	1,321	2,569	4,532	14,865	21,111	636	1,558	(D)
384	Medical equipment and sup- plies.....	16	7	706	2,545	563	1,072	1,841	5,274	( <sup>2</sup> )	160	379	(D)
3851	Ophthalmic goods.....	5	2	278	1,002	240	451	791	1,912	2,601	39	(D)	(D)
39	Miscellaneous manufactures <sup>5</sup>	291	106	20,157	84,976	15,936	31,938	61,137	126,779	( <sup>2</sup> )	(D)	11,434	48,681
391	Jewelry and silverware.....	18	6	1,189	4,720	940	1,826	3,481	7,903	( <sup>2</sup> )	217	1,177	6,320
3911	Jewelry (precious metal).....	12	4	622	2,684	459	925	1,889	5,076	7,540	(D)	599	(D)
393	Musical instruments and parts	26	15	1,758	7,936	1,347	2,602	5,757	10,865	( <sup>2</sup> )	84	2,108	8,367
3939	Musical instruments, n.e.c.....	22	12	1,463	6,675	1,095	2,113	4,733	9,115	12,260	79	1,515	6,318
394	Toys and sporting goods.....	41	12	1,700	5,963	1,436	2,615	4,353	9,724	( <sup>2</sup> )	408	2,349	10,276
3943	Children's vehicles.....	5	3	848	2,808	739	1,291	2,204	4,505	9,132	332	1,187	(D)
3949	Sporting and athletic goods....	24	5	369	1,285	312	600	921	2,119	4,067	30	553	1,638
395	Office supplies.....	8	2	266	750	217	450	593	1,162	( <sup>2</sup> )	37	12	(D)
396	Costume jewelry and notions..	13	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3962	Artificial flowers.....	8	3	199	543	175	313	398	733	1,405	(D)	153	650
3971	Plastics products, n.e.c.....	51	24	4,431	18,746	3,541	6,980	13,055	28,155	69,788	3,173	2,484	10,025

See footnotes at end of table.



Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establish- ments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
	Miscellaneous manufac- tures—Continued												
398	Miscellaneous manufactures <sup>5</sup> ..	134	44	10,580	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3981	Brooms and brushes.....	12	4	331	1,014	249	422	594	2,548	3,669	28	545	3,058
3988	Morticians' goods.....	33	15	1,774	7,013	1,388	2,800	4,424	12,652	21,154	464	1,224	5,157
3993	Signs and advertising displays.	55	8	525	1,800	410	837	1,299	3,531	6,099	141	482	2,109
1900	Ordnance and accessories.....	17	13	7,669	35,707	5,954	12,594	26,532	48,191	( <sup>2</sup> )	1,335	(D)	(D)

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industries (4-digit) and industry groups (3-digit) are not shown. Industries and industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "all industries" line.

<sup>2</sup>The total value of shipments figures for industry groups and a few individual industries have not been published due to the extensive and unmeasurable duplication arising from shipments from one establishment to another in the same industry classification contained in these figures. (See Introduction.)

<sup>3</sup>The 1954 and 1947 "all industries" totals are not strictly comparable because of differences in scope between the two years in major groups 20 and 24 (see footnote 4).

<sup>4</sup>Comparable data for Major groups 20 and 24 are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude establishments in S.I.C. Industry 2411, Logging Camps and Contractors, which are included in the scope of the 1954 Census; the 1947 Census also excludes plants processing and distributing fluid milk which in 1954 are classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
20	Food and kindred products except subgroup 202, Dairy products.....	38,984	318,415	41,630	271,796
24	Lumber and wood products except Industry 2411, Logging camps and contractors.....	10,742	59,071	9,224	36,425

<sup>5</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)

## MANUFACTURES—AREA STATISTICS

Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947

(For explanation of column captions see Introduction)

Code	Industry group	Establishments, number	1954							1947	
			All employees		Production workers			Value added by manufacture	Capital expenditures, new	All employees, number	Value added by manufacture
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
CHICAGO STANDARD METROPOLITAN AREA (Consists of Cook, Du Page, Kane, Lake, and Will Counties, Illinois; and Lake County, Indiana)											
	All industries, total <sup>1</sup> ...	13,456	942,819	4,256,393	718,642	1,419,044	2,897,563	7,893,423	427,396	2,946,041	25,529,227
20	Food and kindred products...	1,248	101,689	435,350	75,402	153,688	286,193	964,249	46,226	(3)	(3)
201	Meat products.....	181	28,509	128,745	22,953	48,021	97,328	164,062	10,698	31,519	148,906
202	Dairy products.....	174	7,441	36,404	4,761	9,567	19,596	91,313	3,873	(3)	(3)
203	Canned and frozen foods.....	99	7,193	28,640	5,768	11,193	19,682	73,040	2,712	7,283	51,883
204	Grain mill products.....	54	3,777	17,220	2,741	5,480	10,557	56,097	1,107	3,127	35,634
205	Bakery products.....	247	18,526	78,770	12,434	27,271	48,421	154,742	4,523	15,971	82,414
207	Candy and related products.....	121	15,310	54,462	12,239	24,298	38,123	156,981	5,155	17,125	152,985
209	Miscellaneous foods.....	269	15,279	63,441	11,581	22,016	40,027	205,964	12,544	14,731	163,834
21	Tobacco manufactures.....	25	553	(D)	494	(D)	(D)	(D)	(D)	739	(D)
22	Textile mill products.....	97	7,327	28,436	5,881	11,752	18,953	48,810	1,918	8,775	47,125
225	Knitting mills.....	18	1,000	2,700	876	1,533	1,955	4,006	186	1,385	4,839
229	Miscellaneous textile goods....	41	3,707	16,224	2,915	6,220	10,384	29,322	1,552	4,254	26,551
23	Apparel & related products..	1,085	38,230	121,752	32,141	55,710	85,667	195,103	2,581	48,134	222,905
231	Men's & boys' suits and coats..	89	9,740	31,673	8,019	13,169	22,736	43,893	267	12,335	57,675
232	Men's and boys' furnishings...	141	4,129	11,871	3,667	6,362	8,829	18,351	213	5,151	19,900
233	Women's and misses' outerwear..	265	10,238	32,833	8,941	14,943	24,903	52,512	469	14,476	64,089
234	Women's undergarments.....	48	3,586	13,124	2,842	5,007	7,392	26,019	246	4,722	27,243
235	Millinery.....	42	1,138	3,900	1,003	1,805	2,999	5,732	21	1,681	7,141
238	Miscellaneous apparel.....	57	1,934	5,582	1,613	2,940	3,855	9,157	66	(D)	(D)
239	Fabricated textiles, n.e.c.....	365	6,618	20,575	5,355	10,258	13,297	34,839	1,263	6,638	31,554
24	Lumber and wood products....	366	7,752	31,412	6,249	12,413	21,864	46,929	1,117	7,332	35,257
243	Millwork and related products..	182	3,151	14,514	2,288	4,419	9,365	20,796	672	2,158	11,332
244	Wooden containers.....	47	1,164	3,780	1,037	1,977	3,010	6,100	95	1,805	8,303
249	Miscellaneous wood products....	124	3,158	11,916	2,677	5,465	8,590	18,345	312	3,269	15,163
25	Furniture and fixtures.....	566	22,564	93,763	18,323	36,490	65,603	150,931	5,914	22,743	111,102
251	Household furniture.....	322	15,856	65,068	13,009	26,150	46,723	102,696	4,087	14,749	69,429
252	Office furniture.....	12	1,086	4,712	849	1,647	3,179	7,394	(D)	1,490	7,443
254	Partitions and fixtures.....	111	3,157	14,775	2,455	4,855	9,637	25,034	657	2,547	15,458
256	Screens, shades, and blinds....	86	1,237	4,379	944	1,677	2,493	8,079	(D)	1,746	8,402
26	Pulp, paper and products....	343	24,108	100,432	19,105	38,530	68,188	178,456	8,481	22,169	122,656
261	Pulp, paper and board.....	12	1,261	5,374	1,093	2,298	4,543	13,870	363	1,339	8,408
267	Paperboard containers.....	147	11,581	48,006	9,190	18,363	32,841	82,081	3,855	9,773	59,413
269	Pulp, paper & products, n.e.c..	113	5,969	23,928	4,738	9,638	16,030	42,156	2,650	7,661	34,796
27	Printing and publishing.....	2,032	81,698	413,951	53,484	103,372	261,472	677,109	24,389	82,470	498,878
271	Newspapers.....	157	14,069	74,015	7,471	12,804	39,743	107,757	4,477	11,838	81,383
272	Periodicals.....	226	5,983	30,061	1,722	2,815	6,275	61,412	1,636	6,639	53,360
273	Books.....	114	7,871	33,411	2,342	4,346	10,114	90,474	2,307	7,398	52,210
275	Commercial printing.....	787	26,825	140,924	21,821	43,252	107,384	208,122	8,877	34,271	183,398
276	Lithographing.....	272	10,234	54,349	8,016	15,945	38,049	79,848	4,054	6,498	42,604
278	Bookbinding and related industries.....	129	4,783	17,949	4,129	8,031	13,588	26,375	882	4,838	20,100
279	Printing trade services.....	254	6,587	42,050	5,162	10,635	31,672	55,642	1,657	6,000	41,395
28	Chemicals and products.....	687	37,658	180,439	24,405	48,544	97,418	516,809	26,732	39,031	390,369
281	Inorganic chemicals.....	23	3,045	15,419	2,322	4,703	10,321	45,560	9,486	(D)	(D)
282	Organic chemicals.....	28	4,984	24,759	3,327	6,909	15,892	46,136	2,691	3,129	27,555
283	Drugs and medicines.....	76	6,128	28,640	3,601	6,760	12,545	100,327	3,991	7,061	67,922
284	Soap and related products.....	118	5,415	26,406	3,295	6,525	13,577	83,772	1,445	6,040	81,386
285	Paints and allied products....	139	7,265	35,810	4,606	9,177	18,182	87,938	2,466	7,494	67,485
288	Vegetable and animal oils.....	15	1,896	9,322	1,187	2,651	5,366	26,117	1,953	2,246	33,162
289	Chemical products, n.e.c.....	275	8,318	37,486	5,599	10,820	19,706	120,731	3,953	9,412	83,546
29	Petroleum and coal products..	78	21,759	111,248	16,825	33,220	80,912	233,900	58,861	23,327	181,044
291	Petroleum refining.....	11	12,421	67,383	9,347	18,113	48,756	149,181	42,709	12,772	102,868
295	Paving and roofing materials...	27	3,214	14,604	2,555	5,498	10,736	27,441	2,067	3,822	29,087
30	Rubber products.....	79	4,543	(D)	3,562	(D)	(D)	(D)	(D)	3,344	(D)
309	Rubber industries, n.e.c.....	79	4,543	18,019	3,562	7,420	12,141	29,213	1,889	(D)	(D)
31	Leather and leather goods...	189	9,483	35,330	8,333	15,983	26,898	57,234	1,467	12,914	65,804
311	Leather tanning and finishing..	25	2,326	10,606	2,112	4,440	8,544	16,303	448	(D)	(D)
314	Footwear, except rubber.....	25	4,172	14,952	3,664	6,487	10,965	22,541	133	5,250	21,229
315	Leather gloves.....	9	190	472	178	298	417	710	5	(D)	(D)
317	Purses and small leather goods.	21	265	717	245	487	626	1,157	33	(D)	(D)
319	Miscellaneous leather goods....	31	348	1,041	318	607	850	1,755	17	575	2,154
32	Stone, clay, & glass products	407	18,256	79,569	14,709	29,529	57,167	148,501	10,062	17,032	93,650
322	Pressed and blown glassware....	20	734	2,466	644	1,316	2,014	3,591	80	778	2,285
325	Structural clay products.....	13	1,210	4,948	1,013	1,831	3,746	7,369	284	1,081	6,020
326	Pottery and related products...	17	595	2,117	471	949	1,526	3,041	390	1,041	5,557
327	Concrete and plaster products..	116	2,326	10,957	1,816	3,934	7,729	22,838	1,188	1,607	9,595
328	Cut-stone and stone products...	37	822	3,801	637	1,307	2,605	6,165	91	(D)	(D)
329	Nonmetallic mineral products, n.e.c.....	142	9,979	44,709	8,010	16,023	31,515	82,668	7,109	9,233	54,165

See footnotes at end of table.



Table 5.--GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP:  
1954 AND 1947--Continued

Code	Industry group	Establish- ments, number	1954							1947	
			All employees		Production workers			Value added by manufacture	Capital expendi- tures, new	All employees, number	Value added by manufacture
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
33	Primary metal industries....	385	117,700	562,935	97,025	186,386	431,334	1,103,680	72,272	117,815	678,036
331	Blast furnaces and steel mills.	25	77,365	368,810	64,214	120,908	287,406	781,652	52,835	73,848	423,568
332	Iron and steel foundries.....	80	12,156	53,411	10,270	19,232	41,304	76,927	4,391	14,379	63,627
334	Secondary nonferrous metals....	45	3,428	16,806	2,622	5,409	10,320	29,996	3,871	3,437	26,127
335	Nonferrous rolling and drawing.	16	3,988	19,473	3,182	6,564	14,364	41,781	1,988	(D)	(D)
339	Primary metal industries, n.e.c.	86	13,847	72,522	11,136	23,046	54,542	128,040	7,312	16,297	112,826
34	Fabricated metal products...	1,924	95,610	439,535	77,200	156,798	316,023	750,817	36,476	89,090	487,201
341	Tin cans and other tinware.....	23	12,158	54,990	10,597	21,213	45,707	96,902	5,125	10,657	54,477
342	Cutlery, tools and hardware.....	151	6,715	29,779	5,112	10,102	19,353	54,171	3,761	8,314	45,000
343	Heating and plumbing equipment.	75	4,729	22,885	3,595	7,277	15,326	39,833	(D)	4,822	29,978
344	Structural metal products.....	396	17,411	85,718	13,213	26,805	58,251	153,821	6,731	13,319	81,543
346	Metal stamping and coating.....	601	23,563	107,060	19,513	39,955	77,725	171,174	7,278	19,911	101,014
347	Lighting fixtures.....	155	5,808	23,848	4,489	9,032	15,526	43,342	(D)	7,697	39,706
348	Fabricated wire products.....	132	7,757	33,695	6,667	13,724	25,765	52,430	1,619	7,437	36,374
349	Metal products.....	391	17,467	81,557	14,010	28,687	58,367	139,141	8,626	16,828	99,109
35	Machinery, exc. electrical..	1,778	124,975	613,546	92,005	187,498	406,696	1,019,306	48,840	134,054	700,217
351	Engines and turbines.....	6	5,888	29,355	4,092	7,918	19,001	37,832	3,188	8,571	28,238
352	Tractors and farm machinery....	26	11,868	54,808	8,761	16,618	37,265	87,448	6,575	18,872	75,422
353	Construction & mining mach.....	41	9,152	42,165	6,569	12,789	26,973	71,020	2,576	6,613	35,396
354	Metalworking machinery.....	503	20,432	106,650	15,103	32,288	72,857	169,619	7,724	18,464	113,432
355	Special-industry mach., n.e.c....	219	12,861	68,332	9,387	20,094	44,834	112,651	4,037	14,062	76,274
356	General industrial machinery....	242	18,346	92,608	12,619	26,801	55,811	171,254	6,542	18,304	110,101
357	Office and store machines.....	70	9,285	41,224	7,033	14,433	26,914	74,927	2,606	10,252	54,392
358	Service and household machines.	106	11,725	54,717	8,807	17,758	35,563	105,998	6,351	15,627	82,107
359	Miscellaneous machinery parts..	565	25,415	123,684	19,629	38,796	87,475	188,553	9,238	23,289	124,855
36	Electrical machinery.....	647	117,632	496,262	88,786	171,359	325,534	861,969	35,150	117,539	629,027
361	Electrical industrial apparatus	200	20,108	83,096	15,413	30,432	54,107	141,876	5,041	18,890	98,651
362	Electrical appliances.....	48	12,226	55,265	9,906	19,320	40,390	108,787	5,245	11,157	74,567
366	Communication equipment.....	297	80,127	336,437	59,613	114,158	217,505	570,197	23,584	80,432	416,932
369	Electrical products, n.e.c.....	69	1,920	8,033	1,465	2,777	5,164	17,594	421	3,836	27,422
37	Transportation equipment....	222	47,138	233,073	35,114	71,411	158,224	447,681	31,135	42,170	236,237
371	Motor vehicles and equipment...	149	13,712	68,821	10,963	23,492	50,106	149,721	23,443	13,714	92,762
372	Aircraft and parts.....	28	16,619	86,275	11,382	23,148	52,409	127,642	2,399	(D)	(D)
373	Ships and boats.....	13	514	2,359	464	961	2,022	4,410	167	335	1,407
38	Instruments & related prod..	291	24,810	103,678	17,953	35,686	66,951	191,407	5,110	25,425	123,956
382	Mechanical measuring instruments	48	4,726	21,155	3,247	6,520	12,305	42,627	937	(D)	(D)
384	Medical equipment and supplies.	94	5,266	20,850	3,794	7,004	13,204	41,126	1,260	5,832	32,327
386	Photographic equipment.....	77	7,976	32,136	5,927	12,261	22,576	63,114	1,627	(D)	(D)
387	Watches and clocks.....	15	3,635	15,531	2,696	5,039	9,814	24,112	462	(D)	(D)
39	Miscellaneous manufactures <sup>4</sup> .	1,006	39,288	155,444	31,623	62,329	108,556	259,223	8,746	33,130	167,686
393	Musical instruments and parts...	40	2,453	10,242	2,197	4,747	8,671	23,000	202	2,952	13,976
394	Toys and sporting goods.....	129	4,674	16,819	4,046	7,562	12,619	30,549	1,081	4,864	25,326
395	Office supplies.....	64	2,293	9,728	1,531	3,136	5,291	16,112	401	4,124	23,849
397	Plastics products, n.e.c.....	226	11,805	47,689	9,813	19,631	35,078	77,021	4,512	6,440	31,229
398	Miscellaneous manufactures <sup>4</sup> ....	411	15,148	59,969	11,707	22,842	39,656	95,027	2,204	10,999	53,820
INDIANAPOLIS STANDARD METROPOLITAN AREA (Consists of Marion County, Indiana)											
	All industries, total <sup>1</sup> ...	1,102	102,233	464,243	74,681	150,971	302,764	844,783	48,209	<sup>2</sup> 92,259	<sup>2</sup> 483,375
20	Food and kindred products...	127	11,659	51,515	7,555	16,573	31,373	90,942	3,632	( <sup>3</sup> )	( <sup>3</sup> )
201	Meat products.....	24	4,345	20,719	3,531	7,835	17,087	25,784	1,109	4,131	25,798
202	Dairy products.....	26	2,005	9,194	706	1,730	2,828	15,109	627	( <sup>3</sup> )	( <sup>3</sup> )
204	Grain mill products.....	6	475	1,973	327	720	1,166	3,250	130	697	2,725
205	Bakery products.....	24	2,439	10,586	1,298	2,559	4,478	15,593	623	(D)	(D)
207	Candy and related products.....	4	148	484	124	299	377	1,133	33	(D)	(D)
208	Beverages.....	8	588	2,459	238	514	732	4,369	413	633	2,941
22	Textile mill products.....	4	711	2,505	478	924	1,331	4,428	46	1,888	8,797
23	Apparel & related products..	34	1,568	3,725	1,377	2,662	2,731	5,685	258	2,197	9,950
239	Fabricated textiles, n.e.c.....	23	662	2,199	516	1,063	1,407	3,454	172	546	2,375
24	Lumber and wood products....	32	700	2,251	605	1,155	1,639	4,418	85	647	2,172
242	Lumber and basic products.....	11	332	1,225	276	525	761	2,119	14	100	180
244	Wooden containers.....	6	147	405	130	258	360	727	41	186	809
249	Miscellaneous wood products....	9	184	477	170	313	422	1,228	15	(D)	(D)
25	Furniture and fixtures.....	41	1,143	4,193	956	1,785	2,915	7,261	190	1,284	5,767
251	Household furniture.....	18	785	2,905	666	1,203	1,964	5,111	112	965	4,608
253	Public and professional furn..	4	114	404	95	196	294	597	56	(D)	(D)
254	Partitions and fixtures, n.e.c.	11	187	750	161	317	582	1,325	9	(D)	(D)
26	Pulp, paper and products....	21	2,315	9,327	1,827	3,751	6,464	15,007	528	1,977	12,313
267	Paperboard containers.....	8	1,179	5,301	926	1,955	3,652	7,740	231	(D)	(D)
269	Pulp, paper & products, n.e.c..	5	270	849	203	399	480	1,538	23	(D)	(D)

See footnotes at end of table.



## MANUFACTURES—AREA STATISTICS

Table 5.--GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP:  
1954 AND 1947--Continued

Code	Industry group	Establish- ments, number	1954							1947	
			All employees		Production workers			Value added by manufacture	Capital expendi- tures, new	All employees, number	Value added by manufacture
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
27	Printing and publishing.....	191	5,425	24,876	3,050	5,860	13,695	41,644	1,862	4,796	27,833
271	Newspapers.....	21	2,035	9,012	843	1,475	4,185	16,507	877	1,585	9,914
273	Books.....	11	572	2,621	318	637	1,402	4,418	112	(D)	(D)
274	Miscellaneous publishing.....	9	379	1,591	138	271	468	3,095	167	(D)	(D)
275	Commercial printing.....	82	919	3,919	708	1,448	2,677	6,023	301	1,172	5,399
276	Lithographing.....	17	475	2,486	355	698	1,757	3,500	262	397	1,910
278	Bookbinding & related indus....	13	312	1,383	168	325	616	2,595	53	125	393
279	Printing trade services.....	24	641	3,488	494	960	2,502	4,491	74	574	3,157
28	Chemicals and products.....	63	9,337	50,557	5,573	11,670	23,896	107,254	7,573	8,721	79,149
284	Soap and related products.....	9	493	2,219	203	406	722	6,459	97	(D)	(D)
285	Paints and allied products.....	13	616	3,498	302	564	1,049	5,190	219	(D)	(D)
287	Fertilizers.....	5	382	1,678	310	675	1,073	4,692	1,384	252	2,503
289	Chemical products, n.e.c.....	20	471	1,834	273	564	963	6,173	167	548	3,240
29	Petroleum and coal products..	8	340	1,986	232	500	1,185	5,263	535	797	5,121
30	Rubber products.....	7	2,339	10,524	1,880	3,724	8,011	15,076	637	3,171	(D)
31	Leather and leather goods...	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	161	(D)
32	Stone, clay, & glass prod...	29	1,089	4,325	927	1,960	3,141	7,024	547	944	5,028
327	Concrete and plaster products..	18	292	1,339	223	446	726	2,321	356	(D)	(D)
328	Cut-stone and stone products...	3	124	498	102	163	315	654	10	(D)	(D)
33	Primary metal industries....	29	3,918	17,156	3,289	6,144	13,481	30,009	1,213	4,382	16,942
332	Iron and steel foundries.....	10	2,319	9,461	2,051	3,511	7,883	11,540	656	2,789	9,418
336	Nonferrous foundries.....	5	133	541	111	220	401	763	41	266	978
34	Fabricated metal products...	142	6,891	28,842	5,191	10,331	19,164	41,753	2,548	8,817	38,193
342	Cutlery, tools, and hardware...	7	933	4,120	646	1,280	2,571	5,962	299	1,912	8,808
343	Heating & plumbing equipment...	3	702	3,022	409	819	1,507	4,411	123	(D)	(D)
344	Structural metal products.....	45	1,902	8,647	1,298	2,665	5,118	10,811	1,141	3,144	10,436
346	Metal stamping and coating....	45	1,733	6,791	1,473	2,866	5,201	9,103	305	2,021	10,003
349	Metal products, n.e.c.....	31	1,038	4,069	884	1,738	3,102	6,365	245	(D)	(D)
35	Machinery, exc. electrical..	239	11,480	53,312	9,066	18,245	38,678	92,305	3,037	13,148	66,397
353	Construction & mining mach....	5	1,460	6,216	1,099	2,120	3,983	11,907	174	(D)	(D)
354	Metalworking machinery.....	81	1,443	8,672	1,219	2,975	6,716	13,532	987	895	4,689
355	Special-industry mach., n.e.c..	16	231	1,055	186	422	816	1,886	21	745	3,594
356	General industrial machinery...	29	6,374	28,880	4,990	9,686	21,347	50,369	1,035	7,559	38,392
358	Service and household machines.	12	226	798	187	407	595	1,342	64	(D)	(D)
359	Miscellaneous mach. parts.....	90	1,656	7,246	1,322	2,546	5,041	12,610	720	1,052	5,173
36	Electrical machinery.....	36	16,201	65,505	12,973	25,497	47,268	151,167	4,618	8,268	43,456
361	Elec. industrial apparatus.....	11	328	1,707	247	523	1,025	3,251	12	(D)	(D)
366	Communication equipment.....	16	15,774	63,429	12,643	24,804	46,003	147,156	4,571	(D)	(D)
37	Transportation equipment....	36	25,245	126,507	18,207	37,296	82,614	213,590	20,633	17,976	70,933
38	Instruments & related prod..	12	364	1,293	304	554	966	2,233	49	645	2,624
39	Miscellaneous manufactures <sup>4</sup> ..	49	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1,515	7,464
391	Jewelry and silverware.....	9	618	2,677	457	920	1,885	5,060	59	(D)	(D)
398	Miscellaneous manufactures <sup>4</sup> ....	24	512	2,153	411	809	1,524	3,012	69	666	2,594
"All manufacturing" totals for the Louisville Standard Metropolitan Area (which includes Clark and Floyd Counties in Indiana) appear in Table 3. Industry group statistics for this area are shown in the 1954 Census of Manufactures report for the State of Kentucky											
SOUTH BEND STANDARD METROPOLITAN AREA (Consists of St. Joseph County, Indiana)											
	All industries, total <sup>1</sup> ...	330	43,622	201,674	33,025	61,276	140,294	320,105	7,551	<sup>2</sup> 44,139	<sup>2</sup> 234,908
20	Food and kindred products...	57	1,844	8,258	1,210	2,411	4,656	16,193	935	( <sup>3</sup> )	( <sup>3</sup> )
202	Dairy products.....	16	420	1,877	227	512	826	2,936	225	( <sup>3</sup> )	( <sup>3</sup> )
205	Bakery products.....	16	504	2,020	291	537	868	3,019	145	(D)	(D)
208	Beverages.....	10	769	3,879	573	1,145	2,609	9,419	519	(D)	(D)
21	Tobacco manufactures.....	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
22	Textile mill products.....	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	923	2,667
23	Apparel & related products..	10	1,417	4,080	1,164	2,127	2,880	7,731	66	1,930	6,542
232	Men's and boys' furnishings....	4	1,333	3,804	1,095	1,993	2,665	7,385	66	1,493	5,381
24	Lumber and wood products....	15	286	1,245	225	441	852	1,896	55	256	1,092
243	Millwork and related products...	4	102	432	79	154	312	848	34	(D)	(D)
25	Furniture and fixtures.....	8	1,180	5,115	904	1,664	3,850	5,536	64	1,450	(D)
26	Pulp, paper and products....	6	421	1,714	334	696	1,135	2,654	68	374	2,233

See footnotes at end of table.

Table 5.--GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP:  
1954 AND 1947--Continued

Code	Industry group	Establishments, number	1954							1947	
			All employees		Production workers			Value added by manufacture	Capital expenditures, new	All employees, number	Value added by manufacture
			Number	Payroll (\$1,000)	Number	Man-hours 1,000	Wages (\$1,000)				
27	Printing and publishing.....	48	787	3,700	444	898	2,120	6,401	346	624	3,731
276	Lithographing.....	9	142	842	113	228	547	1,245	41	(D)	(D)
28	Chemicals and products.....	11	340	1,770	204	423	863	3,351	39	264	(D)
29	Petroleum and coal products.	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
30	Rubber products.....	5	5,184	(D)	4,120	(D)	(D)	(D)	(D)	(D)	(D)
32	Stone, clay, & glass prod...	11	162	669	125	269	431	1,080	118	66	238
33	Primary metal industries....	9	382	1,882	310	583	1,360	2,626	118	401	2,303
34	Fabricated metal products...	49	952	4,181	667	1,305	2,420	5,722	380	731	3,248
344	Structural metal products.....	16	370	1,813	194	409	843	2,168	81	217	870
346	Metal stamping and coating....	10	263	1,117	209	390	702	1,485	128	161	806
349	Metal products, n.e.c.....	13	177	734	147	284	508	1,334	132	156	812
35	Machinery exc. electrical...	57	5,568	28,410	4,122	8,178	19,726	41,446	1,721	6,993	33,460
354	Metalworking machinery.....	25	1,408	8,352	1,043	2,251	5,962	11,929	474	1,554	9,465
356	General industrial machinery...	6	1,171	5,998	892	1,798	4,097	9,761	434	(D)	(D)
359	Miscellaneous mach. parts.....	21	912	4,697	685	1,332	3,274	7,868	335	(D)	(D)
36	Electrical machinery.....	4	324	1,478	283	516	1,164	2,442	133	313	1,865
37	Transportation equipment....	12	23,271	109,868	17,720	31,002	76,844	171,402	1,394	21,639	(D)
38	Instruments & related prod..	5	317	1,015	282	490	841	1,369	30	(D)	(D)
39	Miscellaneous manufactures <sup>4</sup> .	18	948	4,382	738	1,439	3,222	6,244	585	654	2,682
398	Miscellaneous manufactures <sup>4</sup> ....	7	652	(D)	504	(D)	(D)	(D)	(D)	(D)	(D)

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industry groups (3-digit) are not shown. Industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "All industries" line.<sup>2</sup>The 1954 and 1947 "All industries" totals are not strictly comparable because of differences in scope between the two years in Major group 20 (see footnote 3).<sup>3</sup>Comparable data for Major group 20 are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude plants processing and distributing fluid milk which in 1954 were classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
20	Food and kindred products except Subgroup 202, Dairy Products:				
	Chicago Standard Metropolitan Area.....	94,248	872,936	96,000	694,000
	Indianapolis Standard Metropolitan Area.....	9,654	75,833	10,563	63,719
	South Bend Standard Metropolitan Area.....	1,424	13,257	1,400	9,350

<sup>4</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)

## MANUFACTURES—AREA STATISTICS

Table 6.—GENERAL STATISTICS FOR PRINCIPAL INDUSTRIAL COUNTIES, BY MAJOR INDUSTRY GROUP: 1954 AND 1947

(Principal industrial counties include all counties with 20,000 or more manufacturing employees. For explanation of column captions see Introduction)

Code	Major industry group	1954								1947	
		Establishments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
		ALLEN COUNTY									
	All industries, total <sup>1</sup> .....	308	33,012	149,898	23,668	47,353	97,439	282,154	11,785	<sup>2</sup> 38,953	<sup>2</sup> 224,305
20	Food and kindred products.....	68	3,358	12,926	2,337	5,021	8,258	25,256	2,615	3,164	20,648
23	Apparel and related products.....	10	843	2,214	788	1,313	1,889	2,744	24	857	2,787
24	Lumber and wood products.....	13	230	723	186	352	501	1,756	55	220	638
25	Furniture and fixtures.....	9	208	658	158	305	396	883	11	296	1,369
26	Pulp, paper and products.....	5	287	1,123	237	457	732	1,821	101	335	(D)
27	Printing and publishing.....	37	835	3,787	503	1,061	2,351	7,244	144	816	4,906
28	Chemicals and products.....	13	225	888	141	274	430	2,209	144	226	1,390
33	Primary metal industries.....	13	2,733	13,850	2,261	4,670	10,957	32,789	980	2,866	19,272
34	Fabricated metal products.....	25	495	2,049	380	718	1,311	3,949	197	609	3,567
35	Machinery, except electrical.....	61	2,882	13,925	2,248	4,400	9,313	27,191	760	7,523	38,896
36	Electrical machinery.....	16	11,959	56,844	7,923	16,042	33,191	91,507	4,227	13,044	(D)
37	Transportation equipment.....	7	6,439	30,237	4,683	9,265	21,182	69,138	1,865	7,092	(D)
39	Miscellaneous manufactures <sup>3</sup> ...	12	407	1,741	321	657	1,321	2,790	117	227	(D)
		LAKE COUNTY									
	All industries, total <sup>1</sup> .....	361	99,288	476,433	79,518	152,436	359,062	965,314	100,928	<sup>2</sup> 92,890	<sup>2</sup> 587,378
20	Food and kindred products.....	60	3,274	13,637	2,203	4,290	8,173	34,590	1,832	2,442	20,561
23	Apparel and related products..	12	961	2,447	890	1,428	1,844	4,559	46	925	3,824
24	Lumber and wood products.....	9	158	566	132	251	440	992	58	94	399
25	Furniture and fixtures.....	13	195	552	174	343	468	1,142	51	160	(D)
26	Pulp, paper and products.....	5	329	1,388	267	560	1,024	2,961	256	137	(D)
27	Printing and publishing.....	39	1,411	6,614	1,110	1,934	5,017	10,367	306	1,397	8,612
28	Chemicals and products.....	23	3,201	16,472	2,241	4,444	10,619	49,510	3,870	3,530	53,439
29	Petroleum and coal products...	11	14,223	74,306	10,941	20,968	54,311	158,508	51,857	15,146	102,776
32	Stone, clay, & glass products.	34	2,717	12,276	2,224	4,619	9,410	30,153	1,005	2,195	13,319
33	Primary metal industries.....	31	56,901	278,279	47,181	90,311	217,526	552,544	37,051	52,161	305,039
34	Fabricated metal products.....	49	7,160	33,281	5,550	10,925	24,219	58,832	1,927	5,225	28,670
35	Machinery, except electrical..	36	1,828	8,686	1,338	2,671	5,520	19,230	793	1,755	10,087
36	Electrical machinery.....	6	127	571	96	184	375	806	10	(D)	(D)
37	Transportation equipment.....	9	4,664	19,468	3,404	6,261	14,145	29,395	860	6,207	31,944
39	Miscellaneous manufactures <sup>3</sup> ...	18	1,711	6,789	1,386	2,554	5,071	9,992	855	784	(D)
		MADISON COUNTY									
	All industries, total <sup>1</sup> .....	150	25,725	114,815	21,408	43,739	90,739	206,088	15,584	<sup>2</sup> 26,048	<sup>2</sup> 125,395
20	Food and kindred products.....	31	1,056	3,796	743	1,487	2,248	6,381	549	1,047	4,617
27	Printing and publishing.....	18	527	1,910	323	656	1,280	2,482	139	533	1,931
32	Stone, clay, & glass products.	10	1,216	4,818	988	2,051	3,627	9,946	...	977	5,110
33	Primary metal industries.....	9	787	3,488	672	1,366	2,859	6,990	862	778	(D)
34	Fabricated metal products.....	19	5,769	25,852	4,929	9,989	20,852	44,988	6,420	6,979	32,257
35	Machinery, exc. electrical....	28	681	3,242	504	1,007	2,072	6,016	340	1,271	6,275
37	Transportation equipment.....	6	1,065	4,659	755	1,630	3,236	6,434	175	214	999
39	Miscellaneous manufactures <sup>3</sup> ...	8	125	697	99	200	497	1,134	13	69	359
		Marion County is coextensive with the Indianapolis Standard Metropolitan Area. Data for this area are shown in Table 5.									
		St. Joseph County is coextensive with the South Bend Standard Metropolitan Area. Data for this area are shown in Table 5.									
		VANDERBURGH COUNTY									
	All industries, total <sup>1</sup> .....	219	32,562	137,178	24,956	48,234	94,373	238,222	7,624	<sup>2</sup> 29,053	<sup>2</sup> 138,922
20	Food and kindred products.....	55	4,209	18,200	2,697	5,699	10,348	39,802	2,039	2,951	18,538
23	Apparel and related products.....	6	665	1,622	573	1,188	1,240	1,990	27	561	1,432
24	Lumber and wood products.....	18	261	891	236	519	742	1,703	15	434	2,392
25	Furniture and fixtures.....	19	1,323	4,166	1,166	2,425	3,281	6,050	158	1,120	4,339
27	Printing and publishing.....	23	881	4,005	580	1,128	2,537	7,193	300	666	4,142
28	Chemicals and products.....	8	1,044	5,599	437	978	1,777	11,357	501	968	(D)
32	Stone, clay, & glass products.	14	439	1,640	390	752	1,316	2,617	215	471	1,740
34	Fabricated metal products.....	16	3,017	14,312	2,289	4,564	9,412	20,265	504	3,440	17,258
35	Machinery, except electrical.....	26	10,042	43,062	8,012	15,242	31,811	79,562	3,073	13,877	51,000
37	Transportation equipment.....	9	8,918	37,733	7,044	12,719	27,391	58,075	487	2,370	(D)
39	Miscellaneous manufactures <sup>3</sup> ...	12	742	3,094	604	1,220	2,216	4,682	230	651	1,802

D Withheld to avoid disclosing data for individual companies.

<sup>1</sup>In order to avoid disclosing data for individual companies, the statistics for some industry groups are not shown. Industry groups reporting less than 100 employees are also omitted. They are included, however, in the "All industries" line.<sup>2</sup>The 1954 and 1947 "All industries" totals are not strictly comparable because of differences in coverage of loggers and fluid milk distributors. See discussion in Introduction and footnote to Table 4 for comparable figures at the State level.<sup>3</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)



20 Food and kindred products	26 Pulp, paper and products	32 Stone, clay, and glass products	38 Instruments and related products
21 Tobacco manufactures	27 Printing and publishing	33 Primary metal industries	39 Miscellaneous manufactures (Includes Group 19 Ordnance and accessories)
22 Textile mill products	28 Chemicals and products	34 Fabricated metal products	
23 Apparel and related products	29 Petroleum and coal products	35 Machinery, except electrical	
24 Lumber and wood products	30 Rubber products	36 Electrical machinery	
25 Furniture and fixtures	31 Leather and leather goods	37 Transportation equipment	

(Counties and size classes in which no manufacturing establishments were reported are omitted)

[illegible]

## MANUFACTURES—AREA STATISTICS

Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954—Continued  
(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establish- ments, total	Number of establishments by major industry group (see headnote for titles)																			
		20-	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Elkhart:																					
1 to 19 employees.....	190	33	...	...	6	8	9	2	16	3	...	6	...	11	4	31	30	3	14	1	13
20 to 99 employees.....	85	15	...	...	1	3	5	1	4	...	...	...	...	...	5	13	14	3	12	...	9
100 employees and over.....	42	1	...	...	1	2	7	3	...	2	...	4	...	...	2	3	2	1	7	1	6
Fayette:																					
1 to 19 employees.....	12	4	...	...	...	...	...	...	1	1	...	...	...	2	...	2	...	1	...	...	1
20 to 99 employees.....	4	1	...	...	...	...	1	...	...	...	...	...	...	...	...	1	1	...	...	...	...
100 employees and over.....	8	...	...	...	...	...	1	...	...	...	...	...	...	...	...	3	3	...	...	...	1
Floyd:																					
1 to 19 employees.....	38	10	...	1	1	8	...	...	6	2	...	...	...	1	2	3	4	...	...	...	...
20 to 99 employees.....	21	2	...	...	...	4	3	...	1	2	...	...	2	1	1	4	...	1	...	...	...
100 employees and over.....	10	1	...	...	2	5	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Fountain:																					
1 to 19 employees.....	8	3	...	...	...	2	...	...	2	...	...	...	...	...	...	...	...	...	...	...	1
20 to 99 employees.....	5	...	...	...	1	...	...	...	...	...	...	...	...	2	1	...	...	...	...	...	1
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...
Franklin:																					
1 to 19 employees.....	7	2	...	...	...	1	...	...	1	...	1	...	...	...	...	...	1	...	1	...	...
20 to 99 employees.....	5	1	...	...	1	...	...	1	...	...	1	...	...	...	...	...	...	...	1	...	...
100 employees and over.....	2	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	1
Fulton:																					
1 to 19 employees.....	15	4	...	...	...	1	...	...	2	1	...	...	...	4	1	...	1	1	...	...	...
20 to 99 employees.....	9	2	...	...	...	1	...	1	1	...	...	...	...	...	1	2	1	...	...	...	...
100 employees and over.....	2	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Gibson:																					
1 to 19 employees.....	22	5	...	...	...	3	...	...	6	...	1	...	...	3	...	2	1	...	...	1	...
20 to 99 employees.....	4	1	...	...	...	...	...	...	1	...	...	...	...	1	...	...	1	...	...	...	...
100 employees and over.....	5	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	2	...	...	1
Grant:																					
1 to 19 employees.....	76	16	...	...	2	2	3	2	12	3	...	...	1	3	3	5	15	3	2	...	4
20 to 99 employees.....	28	9	...	...	...	1	5	2	...	...	...	...	...	1	2	1	3	3	...	1	...
100 employees and over.....	21	...	...	...	1	...	...	4	1	...	...	...	...	3	5	1	...	3	2	...	1
Greene:																					
1 to 19 employees.....	24	4	...	...	...	9	...	...	6	1	...	...	...	2	...	...	1	...	1	...	...
20 to 99 employees.....	8	...	...	...	3	...	...	...	...	1	...	...	...	2	...	1	...	...	...	...	1
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
Hamilton:																					
1 to 19 employees.....	27	8	...	...	...	5	...	...	2	...	...	...	...	1	2	4	2	1	1	...	1
20 to 99 employees.....	9	...	...	...	...	...	2	1	2	...	...	...	...	...	1	2	...	1	...	...	...
100 employees and over.....	3	1	...	...	...	...	...	...	...	...	...	1	...	...	1	...	...	...	...	...	...
Hancock:																					
1 to 19 employees.....	21	4	...	...	...	...	...	...	4	4	...	...	...	1	...	3	3	...	1	...	1
20 to 99 employees.....	10	3	...	...	...	1	1	...	1	1	...	...	...	...	...	2	1	...	...	...	...
100 employees and over.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Harrison:																					
1 to 19 employees.....	17	3	...	...	...	8	...	...	2	...	...	...	...	3	...	...	1	...	...	...	...
20 to 99 employees.....	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hendricks:																					
1 to 19 employees.....	22	3	...	...	...	4	...	1	7	1	...	...	...	2	...	1	2	...	...	...	1
20 to 99 employees.....	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...
Henry:																					
1 to 19 employees.....	36	8	...	...	1	4	3	1	7	2	...	...	...	3	...	1	3	...	2	...	1
20 to 99 employees.....	14	3	...	...	1	1	1	...	1	...	...	...	...	...	1	4	...	...	1	...	1
100 employees and over.....	6	1	...	...	...	...	...	...	...	...	...	...	...	1	2	...	...	...	1	...	1
Howard:																					
1 to 19 employees.....	55	13	...	...	1	2	...	...	8	1	...	...	...	2	6	10	9	...	...	...	3
20 to 99 employees.....	20	5	...	...	...	...	...	...	1	...	...	...	...	1	2	6	...	1	2	...	2
100 employees and over.....	12	...	...	...	...	...	...	...	1	...	...	...	...	2	3	2	...	2	1	...	1
Huntington:																					
1 to 19 employees.....	42	12	...	...	...	4	1	...	6	2	...	...	...	5	...	5	5	1	...	...	1
20 to 99 employees.....	13	3	...	...	1	...	...	...	3	...	...	...	...	1	1	1	...	2	...	...	1
100 employees and over.....	13	1	...	...	1	...	2	...	1	1	...	1	...	1	...	1	1	3	...	...	...
Jackson:																					
1 to 19 employees.....	24	5	...	...	...	11	...	...	2	1	...	...	...	3	1	...	1	...	...	...	...
20 to 99 employees.....	13	4	...	...	...	2	1	1	1	1	...	...	...	2	...	1	...	...	...	...	...
100 employees and over.....	10	...	...	1	1	...	1	...	...	1	...	...	2	...	...	1	...	...	3	...	...
Jasper:																					
1 to 19 employees.....	15	3	...	...	...	5	...	...	5	...	...	...	...	2	...	...	...	...	...	...	...
20 to 99 employees.....	3	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Jay:																					
1 to 19 employees.....	24	8	...	...	...	2	1	...	1	1	...	...	...	2	2	...	3	...	2	...	2
20 to 99 employees.....	9	3	...	...	...	...	...	...	2	1	...	...	...	1	1	...	...	...	...	...	1
100 employees and over.....	6	1	...	...	1	...	...	...	...	...	...	...	...	2	1	...	...	...	1	...	...
Jefferson:																					
1 to 19 employees.....	15	3	...	...	...	5	1	...	1	3	...	...	1	...	...	1	...	...	...	...	...
20 to 99 employees.....	8	3	...	...	2	...	1	...	1	...	...	...	...	...	...	1	...	...	...	...	...
100 employees and over.....	2	1	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
Jennings:																					
1 to 19 employees.....	9	1	1	...	1	2	...	...	1	1	...	...	...	1	...	...	1	...	...	...	...
20 to 99 employees.....	3	...	...	...	...	...	1	...	...	...	...	...	...	...	1	1	...	...	...	...	...
100 employees and over.....	2	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...
Johnson:																					
1 to 19 employees.....	22	9	...	...	...	2	...	1	5	...	...	...	...	1	...	2	1	...	1	...	...
20 to 99 employees.....	12	6	...	...	...	5	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	4	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	1

Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954—Continued  
(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Kosciusko:																					
1 to 19 employees.....	75	9	...	1	3	13	4	1	9	2	...	...	...	2	3	14	6	...	2	1	5
20 to 99 employees.....	26	5	...	1	1	...	2	...	3	...	...	1	...	...	4	3	3	...	1	2	...
100 employees and over.....	7	...	...	...	...	...	...	...	...	...	...	...	...	2	1	...	2	...	...	1	1
Lagrange:																					
1 to 19 employees.....	19	6	...	...	...	3	...	...	2	...	...	...	...	...	3	3	1	...	1	...	...
20 to 99 employees.....	3	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
Lake:																					
1 to 19 employees.....	202	38	1	...	6	6	11	2	34	11	1	1	...	18	6	24	24	4	2	1	12
20 to 99 employees.....	67	12	...	1	1	3	1	2	5	2	...	...	...	9	2	15	5	2	2	1	2
100 employees and over.....	92	10	...	1	5	...	1	1	3	7	8	...	...	7	23	10	7	...	5	...	4
La Porte:																					
1 to 19 employees.....	80	17	...	...	2	8	3	...	12	...	2	...	...	6	2	9	14	2	...	1	2
20 to 99 employees.....	41	7	...	1	6	2	3	1	4	1	...	...	...	...	1	6	3	2	2	1	1
100 employees and over.....	36	...	...	2	1	1	4	...	...	...	...	...	1	1	3	3	8	...	5	2	5
Lawrence:																					
1 to 19 employees.....	25	5	...	...	...	8	1	...	2	1	...	...	...	4	...	1	1	2	...	...	...
20 to 99 employees.....	10	3	...	...	...	1	...	...	1	...	...	...	...	2	1	1	1	...	...	...	...
100 employees and over.....	11	...	...	...	2	...	...	...	...	...	...	...	...	4	1	...	3	...	1	...	...
Madison:																					
1 to 19 employees.....	90	16	...	...	1	4	...	1	15	3	...	1	1	4	4	11	19	2	1	1	6
20 to 99 employees.....	37	13	...	...	1	...	2	...	1	1	...	...	...	2	2	5	7	...	1	...	2
100 employees and over.....	23	2	...	...	1	...	...	1	2	...	...	...	...	4	3	3	2	1	4	...	...
Marion:																					
1 to 19 employees.....	717	66	...	1	23	21	26	6	144	35	6	2	2	22	14	92	176	21	16	8	36
20 to 99 employees.....	252	37	...	...	7	11	12	7	36	17	1	2	...	6	7	33	47	7	9	3	10
100 employees and over.....	133	24	...	3	4	...	3	8	11	11	1	3	...	1	8	17	16	8	11	1	3
Marshall:																					
1 to 19 employees.....	52	12	...	...	1	4	2	1	8	2	...	1	...	3	3	6	6	...	3	...	...
20 to 99 employees.....	14	6	...	...	...	2	1	...	1	...	...	...	1	...	1	...	1	1	...	...	...
100 employees and over.....	5	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	...	...	3	...	...
Martin:																					
1 to 19 employees.....	15	3	...	...	2	6	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Miami:																					
1 to 19 employees.....	39	6	...	...	3	5	3	...	4	2	...	1	...	2	1	3	4	1	1	2	1
20 to 99 employees.....	22	3	...	...	...	1	4	...	2	...	...	...	...	...	...	4	2	1	2	1	2
100 employees and over.....	6	...	...	...	...	1	1	...	...	...	...	...	...	...	1	...	1	1	...	...	1
Monroe:																					
1 to 19 employees.....	34	5	...	...	...	7	...	1	8	1	...	...	...	9	...	...	...	1	...	...	2
20 to 99 employees.....	20	4	...	...	...	1	...	...	1	...	...	...	...	14	...	...	...	...	...	...	...
100 employees and over.....	9	...	...	...	...	...	1	...	...	...	...	...	...	5	...	...	...	3	...	...	...
Montgomery:																					
1 to 19 employees.....	21	7	...	...	...	3	...	...	5	...	...	...	...	5	...	...	1	...	...	...	...
20 to 99 employees.....	12	2	...	...	1	1	...	...	1	...	...	...	...	2	1	2	1	...	...	...	1
100 employees and over.....	6	...	...	...	1	...	...	...	1	...	...	...	...	...	1	1	1	...	...	...	1
Morgan:																					
1 to 19 employees.....	29	3	...	...	...	10	2	...	3	...	...	...	...	1	...	3	7	...	...	...	...
20 to 99 employees.....	14	1	...	...	...	2	2	...	1	...	...	...	...	4	...	2	1	1	...	...	...
Newton:																					
1 to 19 employees.....	11	1	...	...	...	...	...	...	3	2	...	...	...	...	...	1	3	1	...	...	...
20 to 99 employees.....	2	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
100 employees and over.....	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...
Noble:																					
1 to 19 employees.....	45	11	...	...	...	4	1	...	6	2	...	1	...	2	2	4	9	...	1	...	2
20 to 99 employees.....	14	3	...	...	1	...	2	...	...	...	...	...	...	1	3	2	1	1	...	...	...
100 employees and over.....	7	1	...	...	1	...	...	...	...	...	...	...	...	...	1	...	2	1	...	...	1
Ohio:																					
1 to 19 employees.....	3	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Orange:																					
1 to 19 employees.....	25	5	...	...	...	12	1	...	5	...	...	...	...	...	...	1	1	...	...	...	...
20 to 99 employees.....	4	2	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Owen:																					
1 to 19 employees.....	12	3	...	...	...	5	...	...	3	...	...	...	...	...	...	1	...	...	...	...	...
20 to 99 employees.....	4	...	...	...	1	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1
Parke:																					
1 to 19 employees.....	14	5	...	...	...	4	...	...	2	...	...	...	...	2	...	...	...	...	...	...	1
20 to 99 employees.....	3	1	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Perry:																					
1 to 19 employees.....	18	7	...	...	1	9	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	6	...	...	1	...	1	3	...	...	...	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	5	...	...	...	...	...	2	...	...	...	...	...	...	1	...	...	...	1	1	...	...
Pike:																					
1 to 19 employees.....	12	3	...	...	...	5	1	...	2	...	...	...	...	...	...	...	...	...	...	...	1
Porter:																					
1 to 19 employees.....	34	5	...	...	1	2	...	...	8	4	...	...	...	4	1	2	5	...	...	...	2
20 to 99 employees.....	14	1	...	...	2	3	1	...	1	...	...	...	...	...	1	1	4	...	...	...	...
100 employees and over.....	5	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	1	1	...		



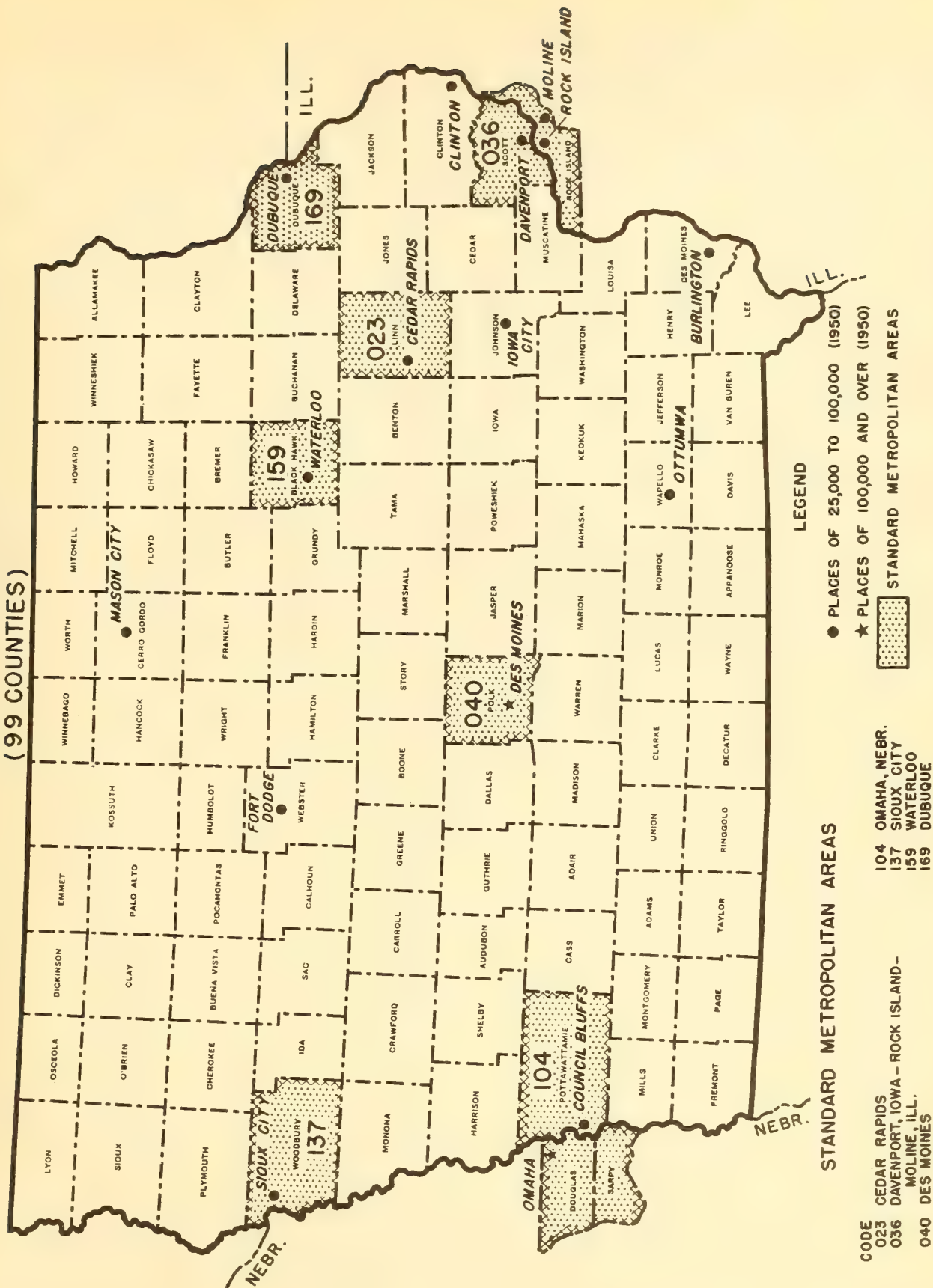
## MANUFACTURES—AREA STATISTICS

Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954—Continued  
(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establish- ments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Randolph:																					
1 to 19 employees.....	38	10	...	...	1	1	1	...	6	...	...	...	2	1	1	5	4	1	1	...	4
20 to 99 employees.....	8	2	...	...	...	...	1	...	1	...	...	...	...	...	2	1	...	...	...	...	1
100 employees and over.....	7	...	...	...	1	1	...	...	...	...	...	...	...	1	...	...	1	1	2	...	...
Ripley:																					
1 to 19 employees.....	28	10	...	...	...	10	1	...	4	...	...	...	...	1	...	...	2	...	...	...	...
20 to 99 employees.....	7	2	...	...	...	3	1	...	...	...	...	...	1	...	...	...	...	...	...	...	...
100 employees and over.....	3	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Rush:																					
1 to 19 employees.....	16	5	...	1	1	1	2	...	1	1	...	...	...	3	...	...	...	...	...	1	...
20 to 99 employees.....	9	4	...	...	...	...	1	1	1	1	...	...	...	...	...	...	1	...	...	...	...
100 employees and over.....	2	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...
St. Joseph:																					
1 to 19 employees.....	222	37	2	1	5	8	5	2	45	10	...	4	...	6	5	36	31	1	7	2	15
20 to 99 employees.....	75	15	...	...	3	7	2	3	2	...	1	...	...	5	3	10	17	2	2	2	1
100 employees and over.....	33	5	...	...	2	...	1	1	1	1	1	1	...	...	1	3	9	1	3	1	2
Scott:																					
1 to 19 employees.....	11	3	...	...	...	4	...	...	1	...	...	...	...	1	...	1	...	...	...	...	1
20 to 99 employees.....	3	1	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...
Shelby:																					
1 to 19 employees.....	32	11	...	...	...	2	1	...	2	...	...	...	...	5	1	4	4	...	...	...	2
20 to 99 employees.....	21	5	...	...	1	1	3	...	2	1	...	1	...	2	...	1	3	1	...	...	...
100 employees and over.....	7	...	...	...	1	...	2	1	...	...	...	...	...	1	...	1	...	1	...	...	...
Spencer:																					
1 to 19 employees.....	17	6	...	...	...	4	...	...	2	...	...	...	...	3	...	...	...	1	1	...	...
20 to 99 employees.....	2	...	...	...	...	...	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Starke:																					
1 to 19 employees.....	17	1	...	...	2	4	1	...	2	...	...	...	...	1	...	2	1	...	1	...	2
20 to 99 employees.....	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	1
100 employees and over.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Steuben:																					
1 to 19 employees.....	35	7	...	...	...	5	...	...	4	3	...	...	...	5	...	...	4	1	3	...	3
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
Sullivan:																					
1 to 19 employees.....	15	5	...	...	...	3	...	...	4	1	...	...	...	1	...	...	1	...	...	...	...
20 to 99 employees.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Switzerland:																					
1 to 19 employees.....	4	...	...	...	...	2	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
Tippecanoe:																					
1 to 19 employees.....	33	11	...	...	2	...	3	...	7	1	...	...	...	3	...	2	3	...	...	1	...
20 to 99 employees.....	22	9	...	...	...	1	...	1	3	3	...	...	...	...	...	3	...	1	...	...	...
100 employees and over.....	13	1	...	...	...	1	...	1	2	...	...	1	...	...	1	2	1	1	1	...	1
Tipton:																					
1 to 19 employees.....	13	9	...	...	...	...	...	...	1	...	...	1	...	...	...	...	...	...	1	...	1
20 to 99 employees.....	10	4	...	...	...	...	1	...	1	1	...	...	...	1	...	...	...	2	...	...	...
100 employees and over.....	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	2	...	...	...	...
Union:																					
1 to 19 employees.....	5	...	...	...	...	1	...	...	2	2	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
Vanderburgh:																					
1 to 19 employees.....	114	24	...	...	1	14	6	2	16	5	1	1	1	9	3	6	17	1	2	...	5
20 to 99 employees.....	63	22	1	...	1	3	8	...	5	2	...	1	...	3	...	3	6	...	3	...	5
100 employees and over.....	42	9	1	...	4	1	5	1	2	1	...	...	...	2	...	7	3	...	4	...	2
Vermillion:																					
1 to 19 employees.....	18	6	...	...	2	2	...	...	3	...	...	...	...	2	...	1	1	...	...	...	1
20 to 99 employees.....	4	1	...	...	...	...	...	1	...	...	...	...	...	1	...	1	...	...	...	...	...
100 employees and over.....	3	...	...	...	1	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...
Vigo:																					
1 to 19 employees.....	93	18	...	1	3	9	4	1	15	5	1	1	...	9	5	4	7	1	1	...	8
20 to 99 employees.....	39	15	...	...	2	1	2	...	4	2	...	...	...	1	2	2	4	1	...	1	2
100 employees and over.....	27	11	...	...	1	1	...	2	1	3	1	...	...	...	2	2	1	...	1	...	1
Wabash:																					
1 to 19 employees.....	40	7	...	...	...	4	2	1	7	1	...	...	...	2	3	2	8	1	...	1	1
20 to 99 employees.....	13	...	...	...	...	1	1	1	1	...	...	1	...	2	1	...	3	...	1	...	1
100 employees and over.....	13	...	...	...	...	1	2	1	1	...	...	1	...	2	...	...	2	2	...	1	...
Warren:																					
1 to 19 employees.....	4	...	...	...	...	...	...	...	3	...	...	...	...	...	...	...	1	...	...	...	...
Warrick:																					
1 to 19 employees.....	18	4	...	...	...	1	...	...	3	...	...	...	...	3	...	1	4	...	2	...	...
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Washington:																					
1 to 19 employees.....	21	3	...	...	...	8	...	...	3	2	...	...	...	2	...	1	1	...	...	...	1
20 to 99 employees.....	8	3	...	...	1	1	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Wayne:																					
1 to 19 employees.....	71	7	...	...	1	5	2	1	10	...	1	1	...	4	4	8	13	2	4	...	8
20 to 99 employees.....	27	3	...	...	3	1	1	...	...	...	...	...	...	...	3	3	5	...	1	...	7</

# IOWA

(99 COUNTIES)





## MANUFACTURES—AREA STATISTICS

Table 1.—MANUFACTURING EMPLOYMENT AT OPERATING ESTABLISHMENTS AND CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARIES FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS

(This table includes data for all manufacturing employees including those located in central administrative offices and auxiliaries. Tables 2-7 in this report include data for operating establishments only. For explanation of column captions see Introduction)

State, standard metropolitan areas, and year <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	(Number)	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
Iowa:						
1954.....	163,954	649,147	162,705	643,980	1,249	5,167
1953 <sup>2</sup> .....	166,274	642,766	165,773	640,194	501	2,572
1952 <sup>2</sup> .....	159,732	594,970	158,783	591,782	<sup>3</sup> 949	<sup>3</sup> 1,188
1951 <sup>2</sup> .....	157,438	547,744	156,489	544,556	949	3,188
1950 <sup>2</sup> .....	147,429	451,342	140,929	449,862	500	1,480
1949 <sup>2</sup> .....	140,689	416,922	140,020	414,982	669	1,940
1954						
Standard metropolitan areas:						
Cedar Rapids <sup>4</sup> .....	18,593	75,970	18,457	75,434	136	536
Davenport-Rock Island-Moline <sup>5</sup> .....	36,021	160,156	35,284	154,388	737	5,768
Des Moines <sup>6</sup> .....	22,809	95,717	22,482	94,592	327	1,125
Dubuque <sup>7</sup> .....	10,326	42,495	10,322	42,446	4	49
Omaha <sup>8</sup> .....	33,633	134,594	30,586	121,924	3,047	12,670
Sioux City <sup>9</sup> .....	9,421	36,739	9,401	36,651	20	88
Waterloo <sup>10</sup> .....	16,656	72,951	16,652	72,904	4	47

<sup>1</sup>Employment data for administrative offices and auxiliaries on a State basis are not available for the years prior to 1949. Similar data for standard metropolitan areas are available only for 1954. <sup>2</sup>The employment figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period. The employment figures for administrative and auxiliary units were compiled chiefly from Bureau of Old-Age and Survivors Insurance records and are not strictly comparable with the figures for these units that were collected by the Bureau of the Census for the year 1954. <sup>3</sup>The 1951 data are shown for 1952, as auxiliary and administrative unit data were not collected in 1952. <sup>4</sup>The Cedar Rapids Standard Metropolitan Area consists of Linn County, Iowa. <sup>5</sup>The Davenport-Rock Island-Moline Standard Metropolitan Area consists of Scott County, Iowa; Rock Island County, Illinois. <sup>6</sup>The Des Moines Standard Metropolitan Area consists of Polk County, Iowa. <sup>7</sup>The Dubuque Standard Metropolitan Area consists of Dubuque County, Iowa. <sup>8</sup>The Omaha Standard Metropolitan Area consists of Pottawattamie County, Iowa; Douglas and Sarpy Counties, Nebraska. <sup>9</sup>The Sioux City Standard Metropolitan Area consists of Woodbury County, Iowa. <sup>10</sup>The Waterloo Standard Metropolitan Area consists of Black Hawk County, Iowa.

Table 2.—GENERAL STATISTICS FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1954 AND EARLIER YEARS  
(For explanation of column captions see Introduction)

Year	Establish- ments, number	All employees		Production workers		Value added by manufacture (\$1,000)	
		Number	Payroll (\$1,000)	Number	Wages (\$1,000)		
		IOWA					
1954 <sup>1</sup> .....	3,320	{	162,705	643,980	122,763	248,683	1,235,965
1953 <sup>2</sup> .....			165,773	640,194	130,011	465,703	1,179,513
1952 <sup>2</sup> .....			158,783	591,782	120,417	423,495	1,113,171
1951 <sup>2</sup> .....			156,489	544,556	118,440	392,223	1,018,667
1950 <sup>2</sup> .....			146,929	449,862	110,296	320,032	925,762
1949 <sup>2</sup> .....	2,963	{	140,020	414,982	106,737	289,046	795,502
1947.....			140,397	372,285	112,467	275,411	671,008
1939.....			88,054	114,087	64,773	72,889	243,390
1937.....			81,764	101,683	67,878	76,193	236,064
1935.....			68,818	77,087	56,541	55,483	176,653
1933.....	2,217	(NA)	(NA)	52,137	45,228	140,601	
1931.....	2,776	(NA)	(NA)	60,956	68,402	204,804	
1929.....	3,317	97,414	137,243	81,678	102,327	323,820	
1927.....	3,061	(NA)	(NA)	73,692	91,247	272,401	
1925.....	3,270	(NA)	(NA)	74,976	92,233	258,185	
1923.....	3,420	(NA)	(NA)	77,847	94,206	255,697	
1921.....	3,527	(NA)	(NA)	62,274	78,546	182,742	
1919.....	5,104	98,470	122,168	79,196	88,381	221,757	
1914.....	5,548	76,976	55,977	62,913	39,698	104,940	
1909.....	5,528	73,037	43,514	61,635	32,542	88,531	
1904.....	4,785	56,603	28,945	49,481	22,997	57,728	
1899.....	4,828	49,579	22,253	44,420	18,021	47,092	
STANDARD METROPOLITAN AREAS (None with 40,000 or more manufacturing employees in this State)							

NA Not available.

<sup>1</sup>The 1954 figures include data for establishments engaged in the processing and distribution of fluid milk, Industry Group 202, Dairy Products. These establishments were not included in the figures for the Annual Survey years 1949-1953 or earlier Census years. In addition, the 1954 Census and Annual Survey years include data for Logging Camps and Contractors, Industry 2411, which were not included within the scope of the 1947 Census. See footnotes to Table 4 for comparable 1954 and 1947 totals. There were also a number of changes in the definition of manufacturing industries during earlier Census years that affect the comparability of the historical series. Among the more important of these were: figures for 1935 and later years exclude data for "Railroad repair shops" and "Manufactured gas" which were included in 1899-1933 figures; the minimum size of establishment included for 1954 and 1947 was one employee, for 1939-1921 manufacturing establishments reporting value of shipments of \$5,000 or more were within scope whereas for 1919 and earlier years the cutoff was \$500. (This change in procedure has not appreciably affected the comparability of the historical data except for the figures on number of establishments.)

<sup>2</sup>The employment and payroll figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period.



Table 3.--GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
Iowa, total.....	2,621,073	3,320	162,705	643,980	122,763	248,683	443,615	1,235,965	73,410	140,397	1671,008
STANDARD METROPOLITAN AREAS											
Cedar Rapids.....	104,274	196	18,457	75,434	13,399	28,066	50,117	150,759	5,979	14,313	81,333
Davenport, Iowa-Rock Island- Moline, Ill.....	234,256	364	35,284	154,388	26,750	52,402	108,778	282,406	19,151	37,322	171,663
Portion in Iowa.....	100,698	166	12,406	51,817	9,394	18,929	36,461	105,633	4,925	9,272	43,148
Portion in Illinois.....	133,558	198	22,878	102,571	17,356	33,473	72,317	176,773	14,326	28,050	128,515
Des Moines.....	226,010	385	22,482	94,592	16,047	31,801	61,644	186,245	14,368	16,090	86,907
Dubuque.....	71,337	113	10,322	42,446	8,316	16,847	32,405	73,825	1,517	9,225	37,585
Omaha.....	366,395	554	30,586	121,924	22,879	47,544	84,830	213,792	25,817	27,526	167,057
Portion in Iowa.....	69,682	77	1,618	5,351	1,265	2,511	3,726	9,428	513	1,571	6,818
Portion in Nebraska.....	296,713	477	28,968	116,573	21,614	45,033	81,104	204,364	25,304	25,955	160,239
Sioux City.....	103,917	146	9,401	36,651	7,250	14,843	25,761	46,794	2,898	9,889	44,756
Waterloo.....	100,448	143	16,652	72,904	12,631	24,955	51,787	110,908	8,275	17,859	64,547
COUNTIES											
Adair.....	12,292	7	48	119	42	84	119	248	7	30	(D)
Adams.....	8,753	4	53	158	35	76	106	408	42	21	(D)
Allamakee.....	16,351	23	291	781	234	445	478	953	44	224	802
Appanoose.....	19,683	20	411	1,042	351	702	780	1,821	119	615	2,710
Audubon.....	11,579	12	122	365	99	226	274	531	30	102	350
Benton.....	22,656	22	229	690	175	445	485	1,452	44	214	376
Black Hawk.....	100,448	143	16,652	72,904	12,631	24,955	51,787	110,908	8,275	17,859	64,547
Boone.....	28,139	28	398	1,361	308	705	987	2,293	95	289	1,069
Bremer.....	18,884	40	751	2,831	578	1,216	1,828	6,735	348	584	7,515
Buchanan.....	21,927	18	254	735	211	510	540	1,075	49	289	745
Buena Vista.....	21,113	34	727	2,938	629	1,492	2,576	4,899	153	436	2,027
Butler.....	17,394	20	81	180	65	138	147	402	50	68	304
Calhoun.....	16,925	20	105	284	81	176	211	575	21	75	250
Carroll.....	23,065	22	555	1,564	450	940	1,117	2,239	217	436	1,802
Cass.....	18,532	23	352	1,233	227	538	599	2,165	502	303	1,338
Cedar.....	16,910	18	63	147	49	100	113	266	16	97	498
Cerro Gordo.....	46,053	60	3,778	14,873	2,939	6,168	10,791	28,586	1,707	3,519	18,475
Cherokee.....	19,052	23	272	834	225	529	673	1,305	247	172	1,503
Chickasaw.....	15,228	20	134	320	116	247	264	587	46	134	479
Clarke.....	9,369	6	104	256	87	176	193	222	15	179	(D)
Clay.....	18,103	31	501	1,549	407	816	1,170	3,057	104	277	1,285
Clayton.....	22,522	48	391	774	349	596	676	1,341	147	314	1,033
Clinton.....	49,664	64	5,605	23,047	4,403	8,796	16,020	60,385	4,595	4,753	31,059
Crawford.....	19,741	15	79	189	59	107	148	411	7	139	599
Dallas.....	23,661	27	699	2,243	570	1,219	1,662	4,209	495	646	3,687
Davis.....	9,959	6	122	399	82	154	177	717	51	119	338
Decatur.....	12,601	13	108	242	67	124	134	490	26	44	156
Delaware.....	17,734	21	122	269	106	218	234	551	50	138	524
Des Moines.....	42,056	75	7,117	26,236	5,181	10,294	17,816	73,186	1,541	3,705	19,254
Dickinson.....	12,756	16	180	458	130	266	283	857	44	149	(D)
Dubuque.....	71,337	113	10,322	42,446	8,316	16,847	32,405	73,825	1,517	9,225	37,585
Emmet.....	14,102	21	651	2,290	478	964	1,503	6,545	220	500	3,102
Fayette.....	28,294	39	711	1,944	316	617	735	4,324	414	425	4,254
Floyd.....	21,505	27	1,911	8,027	1,280	2,170	4,052	10,585	2,312	2,501	(D)
Franklin.....	16,268	23	435	1,211	375	718	947	2,447	58	266	945
Fremont.....	12,323	7	51	158	42	82	125	232	(D)	25	73
Greene.....	15,544	16	112	265	79	146	171	546	32	119	450
Grundy.....	13,722	17	228	591	196	390	472	1,038	74	126	622
Guthrie.....	15,197	9	50	105	40	67	87	191	30	55	214
Hamilton.....	19,660	26	864	3,177	665	1,510	2,278	5,244	461	629	2,768
Hancock.....	15,077	12	46	117	35	73	87	242	12	65	258
Hardin.....	22,218	38	427	1,371	341	725	1,017	4,803	304	243	(D)
Harrison.....	19,560	13	50	118	41	83	89	358	44	54	260
Henry.....	18,708	12	255	830	218	402	640	2,191	46	384	2,459
Howard.....	13,105	12	70	193	54	118	162	277	31	37	170
Humboldt.....	13,117	16	205	579	146	309	376	1,038	92	175	626
Ida.....	10,697	12	74	218	53	101	124	418	21	56	332
Iowa.....	15,835	16	941	3,469	773	1,585	2,415	10,842	393	452	1,678
Jackson.....	18,622	24	1,079	4,084	899	1,936	3,185	6,475	942	306	1,049
Jasper.....	32,305	34	4,374	19,291	3,132	6,752	12,369	39,936	5,676	4,287	20,569
Jefferson.....	15,696	22	1,395	4,470	1,025	1,741	2,733	7,851	182	1,311	5,943
Johnson.....	45,756	41	643	2,641	401	806	1,506	4,364	195	412	1,575
Jones.....	19,401	24	351	1,025	307	666	789	1,501	30	453	1,828
Keokuk.....	16,797	14	145	491	124	299	401	653	30	165	833
Kossuth.....	26,241	30	228	775	158	309	510	1,283	145	205	939

See footnotes at end of table.

## MANUFACTURES—AREA STATISTICS

Table 3.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954							1947		
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
Lee.....	43,102	63	5,973	26,215	4,798	9,311	17,024	62,973	2,637	6,792	39,610
Linn.....	104,274	196	18,457	75,434	13,399	28,066	50,117	150,759	5,979	14,313	81,333
Louisa.....	11,101	12	89	187	77	143	155	387	16	91	288
Lucas.....	12,069	12	225	488	200	341	362	666	41	113	252
Lyon.....	14,697	11	65	169	55	121	143	470	34	74	429
Madison.....	13,131	4	22	59	15	27	35	113	1	40	(D)
Mahaska.....	24,672	28	773	2,082	633	1,101	1,587	3,595	241	755	3,513
Marion.....	25,930	21	1,281	3,164	742	1,453	1,695	4,434	181	622	1,433
Marshall.....	35,611	54	3,401	14,622	2,575	5,434	9,787	32,921	2,577	3,175	16,641
Mills.....	14,064	7	127	(D)	94	(D)	(D)	(D)	(D)	137	(D)
Mitchell.....	13,945	16	100	233	81	161	176	428	42	293	631
Monona.....	16,303	9	52	181	39	72	94	383	12	136	788
Monroe.....	11,814	13	75	173	52	101	108	398	43	72	334
Montgomery.....	15,685	19	818	2,440	639	1,290	1,641	4,641	152	439	2,902
Muscatine.....	32,148	67	3,586	11,650	2,770	5,740	8,009	19,433	1,001	3,846	15,499
O'Brien.....	18,970	24	205	568	166	352	461	1,112	251	214	1,065
Osceola.....	10,181	13	214	597	179	417	452	1,365	128	97	(D)
Page.....	23,921	21	277	725	185	424	455	1,259	64	386	1,541
Palo Alto.....	15,891	15	97	232	67	126	154	421	52	55	238
Plymouth.....	23,252	24	184	487	131	284	323	1,579	125	135	474
Pocahontas.....	15,496	13	99	204	78	122	161	437	30	127	368
Polk.....	226,010	385	22,482	94,592	16,047	31,801	61,644	186,245	14,368	16,090	86,907
Pottawattamie.....	69,682	77	1,618	5,351	1,265	2,511	3,726	9,428	513	1,571	6,818
Poweshiek.....	19,344	23	400	995	314	595	658	1,835	60	321	1,011
Ringgold.....	9,528	6	12	32	9	17	24	72	(D)	10	(D)
Sac.....	17,518	28	301	870	240	502	592	2,005	383	165	1,001
Scott.....	100,698	166	12,406	51,817	9,394	18,929	36,461	105,633	4,925	9,272	43,148
Shelby.....	15,942	14	104	290	63	127	150	621	28	44	217
Sioux.....	26,381	32	303	878	243	509	636	2,139	152	293	1,535
Story.....	44,294	40	649	1,884	450	927	1,054	3,155	130	618	2,128
Tama.....	21,688	14	286	1,197	229	503	931	2,895	311	422	2,572
Taylor.....	12,420	8	182	(D)	157	(D)	(D)	(D)	(D)	153	(D)
Union.....	15,651	19	311	753	237	495	507	1,109	74	283	889
Van Buren.....	11,007	13	213	659	185	403	469	1,404	53	78	358
Wapello.....	47,397	51	6,431	26,944	4,910	9,888	19,912	33,893	1,334	6,185	(D)
Warren.....	17,758	7	99	350	84	176	258	533	34	94	334
Washington.....	19,557	21	547	1,513	429	796	1,000	3,154	125	492	2,495
Wayne.....	11,737	9	78	234	47	96	102	549	20	74	351
Webster.....	44,241	61	4,032	16,519	3,214	6,753	12,588	40,271	1,489	3,210	19,857
Winnebago.....	13,450	12	139	353	116	225	262	536	53	163	455
Winneshiek.....	21,639	22	196	540	149	283	395	950	163	274	1,206
Woodbury.....	103,917	146	9,401	36,651	7,250	14,843	25,761	46,794	2,898	9,889	44,756
Worth.....	11,068	8	37	91	26	52	60	143	14	58	585
Wright.....	19,652	19	399	1,527	306	661	1,079	2,773	216	320	1,222
CITIES WITH 10,000 INHAB- ITANTS OR MORE											
Ames.....	22,898	19	361	1,072	220	469	520	1,681	54	311	759
Boone.....	12,164	19	309	1,090	237	541	798	1,797	87	343	900
Burlington.....	30,613	65	4,346	(D)	2,999	(D)	(D)	(D)	(D)	3,439	18,261
Cedar Falls.....	14,334	23	976	3,589	725	1,391	2,404	5,964	188	(NA)	(NA)
Cedar Rapids.....	72,296	164	18,237	74,778	13,227	27,722	49,647	149,336	5,840	14,088	80,455
Charles City.....	10,309	19	1,815	7,671	1,201	1,984	3,759	9,844	2,231	(NA)	(NA)
Clinton.....	30,379	48	4,085	15,871	3,246	6,416	11,087	35,057	2,310	4,650	30,398
Council Bluffs.....	45,429	63	1,409	4,474	1,109	2,163	3,070	7,871	340	1,221	5,338
Davenport.....	74,549	129	5,817	23,373	4,389	8,731	16,115	36,758	1,600	6,928	34,224
Des Moines.....	177,965	325	17,881	75,029	12,293	24,806	46,569	138,456	8,647	14,088	77,316
Dubuque.....	49,671	83	8,425	33,462	6,864	13,949	26,066	58,024	976	9,025	36,761
Fort Dodge.....	25,115	36	2,286	9,850	1,774	3,589	7,368	20,650	611	2,071	10,344
Fort Madison.....	14,954	20	2,477	12,999	1,933	3,734	7,181	30,635	714	3,487	23,961
Iowa City.....	27,212	27	540	2,114	334	661	1,262	3,389	118	336	1,299
Keokuk.....	16,144	32	3,296	12,433	2,716	5,286	9,309	31,103	1,796	3,031	14,718
Marshalltown.....	19,821	45	3,291	14,166	2,531	5,334	9,634	32,225	2,464	3,128	16,450
Mason City.....	27,980	44	3,276	13,047	2,586	5,399	9,601	23,936	1,488	3,184	16,731
Muscatine.....	19,041	56	3,197	10,383	2,469	5,115	7,131	16,427	801	3,778	15,223
Newton.....	11,723	18	4,016	18,008	2,861	6,143	11,468	37,814	5,531	3,929	18,788
Oskaloosa.....	11,124	21	750	2,031	613	1,063	1,546	3,489	230	728	(D)
Ottumwa.....	33,631	44	6,231	26,249	4,739	9,574	19,386	32,572	1,311	6,113	(D)
Sioux City.....	83,991	132	9,296	36,379	7,153	14,636	25,505	46,296	2,864	9,807	(D)
Waterloo.....	65,198	105	15,575	69,026	11,822	23,381	49,166	104,282	7,939	16,826	60,607

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>The 1947 data are not strictly comparable with the figures shown for 1954 due to differences in coverages of loggers and fluid milk distributors.

See discussion in Introduction and footnotes to Table 4.



Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947

(For explanation of column captions see Introduction)

Ind. code	Industry	1954										1947	
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
	All industries, total <sup>1</sup> ..	3,320	881	162,705	643,980	122,763	248,683	443,615	1,235,965	( <sup>2</sup> )	73,410	( <sup>3</sup> )	( <sup>3</sup> )
20	Food and kindred products..	1,086	274	51,270	202,506	37,388	77,521	137,895	361,180	( <sup>2</sup> )	18,739	( <sup>3</sup> )	( <sup>3</sup> )
201	Meat products.....	102	60	27,980	117,995	22,247	46,119	90,217	166,638	( <sup>2</sup> )	5,550	25,721	101,148
2011	Meat packing plants.....	43	28	25,533	111,990	20,064	41,747	85,336	154,885	( <sup>2</sup> )	5,176	22,665	92,609
2013	Prepared meats.....	14	4	297	1,176	223	454	852	1,680	( <sup>2</sup> )	62	245	1,607
2015	Poultry dressing, plants.....	45	28	2,149	4,828	1,959	3,917	4,029	10,072	52,011	311	2,811	6,932
202	Dairy products.....	499	65	6,616	21,687	4,005	8,442	11,237	47,286	( <sup>2</sup> )	4,188	( <sup>3</sup> )	( <sup>3</sup> )
2021	Creamery butter.....	228	21	2,387	6,593	1,752	3,605	4,415	12,787	106,670	1,612	( <sup>3</sup> )	( <sup>3</sup> )
2022	Natural cheese.....	35		262	734	218	481	583	1,678	10,721	373	( <sup>3</sup> )	( <sup>3</sup> )
2023	Concentrated milk.....	10	1	174	562	147	293	415	3,223	10,188	126	( <sup>3</sup> )	( <sup>3</sup> )
2024	Ice cream and ices.....	53	11	773	2,521	477	974	1,351	8,062	18,442	400	( <sup>3</sup> )	( <sup>3</sup> )
2027	Fluid milk and other products..	139	30	2,699	10,144	1,250	2,740	4,011	19,132	61,276	1,551	( <sup>3</sup> )	( <sup>3</sup> )
203	Canned and frozen foods....	42	21	1,618	3,636	1,443	2,701	2,876	6,841	( <sup>2</sup> )	383	(D)	(D)
2033	Canned fruits and vegetables..	28	18	1,194	2,491	1,082	2,002	2,039	4,503	15,438	(D)	1,355	3,392
204	Grain mill products.....	152	49	5,141	19,981	3,351	6,960	11,660	57,313	( <sup>2</sup> )	2,750	3,962	37,514
2041	Flour and meal.....	6	4	294	1,227	243	550	1,001	4,530	30,745	125	(D)	(D)
2042	Prepared animal feeds.....	142	43	3,510	13,194	2,016	4,214	6,506	33,242	126,731	2,206	2,091	17,581
205	Bakery products.....	120	33	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2051	Bread and related products....	118	31	3,621	14,285	2,020	4,061	6,347	23,284	46,230	1,278	3,216	15,252
207	Candy and related products..	15	7	(D)	1,018	305	659	679	1,845	6,367	195		
2071	Confectionery products.....	15	7	359	1,018	305	659	679	1,845	6,367	195	519	2,139
208	Beverages.....	91	21	1,483	5,175	655	1,527	2,161	8,986	( <sup>2</sup> )	596	1,732	9,658
209	Miscellaneous foods.....	64	17	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2097	Manufactured ice.....	17	2	173	570	109	252	383	1,299	1,603	61	780	3,768
2099	Food preparations, n.e.c.....	37	11	789	2,106	642	1,167	1,398	5,003	22,418	628	1,735	5,522
22	Textile mill products.....	9	6	506	1,427	443	843	1,116	2,384	( <sup>2</sup> )	38	(D)	(D)
225	Knitting mills.....	4	3	203	571	162	304	413	1,135	( <sup>2</sup> )	(D)	(D)	(D)
23	Apparel and related products.....	82	41	3,975	9,449	3,398	6,160	6,997	12,541	( <sup>2</sup> )	255	4,466	12,198
231	Men's and boys' suits and coats.....	4	3	274	629	246	367	520	710	1,319	(D)	(D)	(D)
2311	Men's & boys' suits & coats...	4	3	274	629	246	367	520	710	1,319	(D)	(D)	(D)
232	Men's and boys' furnishings..	21	13	1,063	2,137	906	1,473	1,584	2,717	( <sup>2</sup> )	32	1,998	5,399
233	Women's and misses' outerwear.....	6	3	693	1,548	662	1,260	1,418	1,601	( <sup>2</sup> )	28	(D)	(D)
236	Children's outerwear.....	7	3	315	779	245	459	513	1,128	( <sup>2</sup> )	20	(D)	(D)
239	Fabricated textiles, n.e.c....	31	10	1,005	2,896	806	1,602	1,895	4,515	( <sup>2</sup> )	108	796	2,597
2394	Canvas products.....	19	4	240	807	157	340	449	1,160	2,352	48	190	573
2399	Textile products, n.e.c.....	7	4	497	1,428	414	807	983	2,390	4,492	21	(D)	(D)
24	Lumber and wood products..	198	28	5,647	18,739	4,409	8,947	13,611	27,791	( <sup>2</sup> )	887	( <sup>3</sup> )	( <sup>3</sup> )
242	Lumber and basic products...	102		367	800	319	585	639	1,567	( <sup>2</sup> )	149	251	743
2421	Sawmills and planing mills....	99		332	719	287	528	572	1,273	2,092	(D)	251	743
243	Millwork and related products.....	56	22	4,668	16,237	3,532	7,184	11,492	22,969	( <sup>2</sup> )	567	3,791	16,860
2431	Millwork plants.....	51	19	4,540	15,744	3,424	6,952	11,210	21,990	47,071	550	3,628	16,080
2433	Prefabricated wood products...	5	3	128	492	107	231	281	978	2,327	17	163	780
244	Wooden containers.....	18	3	360	876	348	748	828	1,906	( <sup>2</sup> )	106	257	976
2444	Wooden boxes.....	11	3	324	812	315	695	775	1,751	4,789	91	(D)	(D)
249	Miscellaneous wood products..	11	3	220	763	183	385	660	1,192	( <sup>2</sup> )	40	401	1,411
25	Furniture and fixtures....	74	19	2,362	8,564	1,921	3,796	6,021	14,604	( <sup>2</sup> )	423	2,155	9,263
251	Household furniture.....	46	14	1,541	5,538	1,254	2,429	3,908	8,086	( <sup>2</sup> )	133	1,321	6,107
2512	Upholstd. household furniture.	13	7	723	2,784	615	1,164	2,131	4,118	9,472	53	698	3,413
2515	Mattresses and bedsprings.....	13	1	165	619	117	234	303	979	1,591	13	(D)	(D)
252	Office furniture.....	4	3	502	1,629	422	850	1,234	4,168	( <sup>2</sup> )	181	(D)	(D)
2541	Partitions and fixtures.....	13	1	192	840	155	306	499	1,173	2,060	47	293	1,579
26	Pulp, paper and products..	31	23	2,128	8,088	1,776	3,783	6,186	20,140	( <sup>2</sup> )	1,554	1,265	7,846
261	Pulp, paper and board.....	4	4	410	1,789	361	778	1,462	4,214	( <sup>2</sup> )	287	398	3,237
2671	Paperboard boxes.....	15	11	788	2,839	658	1,391	2,204	6,068	17,720	376	704	3,724
269	Pulp, paper and products, n.e.c.....	6	3	207	700	175	359	541	2,575	( <sup>2</sup> )	5	(D)	(D)
27	Printing and publishing...	632	87	11,393	44,609	6,531	12,787	24,432	85,727	( <sup>2</sup> )	3,424	9,128	55,342
2711	Newspapers.....	343	44	5,628	21,507	3,188	6,027	11,643	39,424	52,126	1,320	4,953	29,302
2721	Periodicals.....	22	8	2,480	11,244	1,168	2,407	5,640	28,782	41,881	1,262	1,609	13,733
273	Books.....	17	2	377	1,274	220	474	482	1,683	( <sup>2</sup> )	34	143	690
2731	Books, publishing and printing	10	2	347	1,167	195	425	401	1,539	2,367	(D)	(D)	(D)
2741	Miscellaneous publishing....	16	1	333	1,001	10	20	21	1,162	1,587	62	114	602
2751	Commercial printing.....	153	21	1,623	5,664	1,195	2,405	3,795	8,832	13,722	354	1,790	8,699

See footnotes at end of table.



## MANUFACTURES—AREA STATISTICS

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
2761	Lithographing.....	39	7	601	2,468	468	941	1,814	3,750	6,043	297	(D)	(D)
279	Printing trade services.....	28	2	222	1,114	172	316	819	1,543	(2)	63	212	1,223
2793	Photoengraving.....	16	1	128	607	97	177	436	855	1,021	32	(D)	(D)
28	Chemicals and products....	171	49	6,039	24,969	4,462	9,087	15,787	76,977	(2)	6,457	5,227	50,977
283	Drugs and medicines.....	23	7	1,077	4,558	653	1,359	2,055	12,542	(2)	642	1,124	6,557
2834	Pharmaceutical preparations...	18	3	584	2,763	265	560	742	6,005	9,686	(D)	652	3,838
284	Soap and related products...	19	2	203	1,033	112	198	308	1,362	(2)	146	(D)	(D)
2842	Cleaning & polishing products.	15	1	123	579	112	160	257	940	1,718	(D)	171	1,101
285	Paints and allied products..	11	4	533	2,333	385	730	1,472	11,157	(2)	198	373	8,160
287	Fertilizers.....	17	7	461	1,756	376	856	1,372	5,115	(2)	844	(D)	(D)
2871	Fertilizer.....	4	3	216	897	184	436	753	3,349	12,105	514	(D)	(D)
2872	Fertilizers, mixing only.....	13	4	245	859	192	420	619	1,766	9,489	330	(D)	(D)
288	Vegetable and animal oils...	64	21	1,744	6,445	1,423	2,862	4,487	16,305	(2)	2,126	1,548	21,579
2883	Soybean oil mills.....	20	16	1,122	4,242	976	1,811	3,013	11,534	136,382	1,780	1,074	16,123
2886	Grease and tallow.....	44	5	622	2,203	446	1,051	1,473	4,771	8,292	346	474	5,456
289	Chemical products, n.e.c....	31	3	252	693	182	349	479	1,548	(2)	66	498	2,608
29	Petroleum and coal products.....	7	1	102	441	61	130	217	920	(2)	93	(D)	(D)
30	Rubber products.....	14	5	3,534	14,238	2,958	5,443	11,438	38,305	(2)	5,928	2,317	12,976
31	Leather and leather goods.	11	6	580	1,331	505	873	1,084	1,893	(2)	24	835	2,463
32	Stone, clay and glass products.....	182	44	5,381	20,651	4,579	10,040	16,453	54,229	(2)	4,436	4,613	27,083
325	Structural clay products....	26	21	1,420	5,165	1,181	2,633	3,891	8,062	(2)	444	1,510	6,868
3259	Structural clay products, nec.	10	6	338	1,206	277	614	917	2,061	2,799	125	325	1,682
327	Concrete and plaster products.....	133	16	2,303	9,001	1,390	4,354	6,896	25,595	(2)	1,335	1,550	10,996
3271	Concrete products.....	127	12	1,237	4,394	991	2,137	3,059	8,208	14,514	784	856	3,237
33	Primary metal industries..	65	32	5,570	23,789	4,622	9,230	17,864	53,272	(2)	2,154	3,206	12,939
332	Iron and steel foundries....	32	21	2,173	8,745	1,955	3,835	7,449	11,496	(2)	454	2,257	8,906
3321	Gray-iron foundries.....	29	18	1,270	3,734	1,148	2,225	4,061	6,360	10,280	239	1,965	(D)
3361	Nonferrous foundries.....	21	6	413	1,431	358	689	1,143	2,207	4,707	132	341	(D)
34	Fabricated metal products.	187	54	6,007	24,662	4,688	9,643	17,309	49,238	(2)	1,973	5,271	27,649
342	Cutlery, tools and hardware.	27	10	786	3,043	627	1,286	2,076	7,063	(2)	217	691	3,062
3423	Hand tools, n.e.c.....	12	4	282	1,062	239	502	807	2,785	4,223	53	284	1,187
3429	Hardware, n.e.c.....	8	5	451	1,767	342	694	1,123	3,908	7,295	134	318	1,470
343	Heating and plumbing equipment.....	13	6	1,260	5,746	852	1,810	3,684	12,808	(2)	564	1,572	9,769
344	Structural metal products...	86	22	2,332	10,043	1,807	3,753	7,118	20,635	(2)	747	2,308	11,928
3441	Structural and ornamental work	35	12	1,449	6,444	1,119	2,405	4,515	13,588	26,349	469	1,210	(D)
3443	Boiler shop products.....	10	5	225	812	176	344	579	1,336	2,384	51	314	1,689
3444	Sheet-metal work.....	31	5	596	2,598	468	918	1,903	5,362	10,822	211	641	2,594
346	Metal stamping and coating..	25	7	689	2,456	600	1,245	1,887	3,980	(2)	127	349	1,602
3463	Metal stamping.....	14	5	592	2,128	514	1,065	1,612	3,409	5,902	97	223	1,222
348	Fabricated wire products....	12	5	456	1,593	396	779	1,237	2,412	4,735	143	180	620
3489	Wirework, n.e.c.....	12	5	456	1,593	396	779	1,237	2,412	4,735	143	180	620
349	Metal products, n.e.c.....	22	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3495	Screw machine products.....	8	2	109	413	94	189	353	420	718	(D)	(D)	(D)
3499	Fabricated metal prod., n.e.c.	11	1	288	1,123	241	454	785	1,556	3,228	49	(D)	(D)
35	Machinery, except electrical.....	324	129	33,305	142,610	25,308	50,302	98,444	247,343	(2)	21,574	34,594	143,673
352	Tractors and farm machinery.	112	47	16,063	70,449	12,409	23,596	50,250	110,506	(2)	10,595	17,117	57,499
3521	Tractors.....	11	6	7,969	35,927	6,208	11,317	25,887	53,616	117,328	8,232	(D)	(D)
3522	Farm machinery (exc. tractors)	101	41	8,094	34,521	6,201	12,278	24,363	56,890	118,171	2,363	(D)	(D)
353	Construction and mining machinery.....	20	13	3,769	16,216	2,761	5,770	10,652	29,034	59,191	510	4,152	22,301
3531	Construction & mining mach....	20	13	3,769	16,216	2,761	5,770	10,652	29,034	59,191	510	4,152	22,301
354	Metalworking machinery.....	40	9	1,144	5,309	829	1,672	3,272	8,056	(2)	178	1,323	7,549
3544	Special dies and tools.....	29	5	354	1,655	314	676	1,401	2,580	3,263	145	(NA)	(NA)
355	Special-industry machinery, n.e.c.....	26	12	1,110	4,634	851	1,812	3,262	7,939	(2)	575	2,133	8,624
3551	Food-products machinery.....	17	8	854	3,539	641	1,318	2,437	6,317	10,819	432	1,303	5,427
356	General industrial machinery	34	17	2,457	9,877	1,821	3,623	6,591	14,450	(2)	389	2,155	9,349
3561	Pumps and compressors.....	8	4	1,239	5,068	952	1,855	3,612	6,364	13,508	192	1,108	5,556

See footnotes at end of table.

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establish- ments, number		All employees		Production workers			Value added by manufacture	Value of shipments	Capital expendi- tures, new	All employees, number	Value added by manufacture
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
3562	Elevators and escalators.....	3	3	142	529	104	225	369	890	1,468	41	(D)	(D)
3563	Conveyors.....	8	2	308	1,333	175	380	574	3,107	4,968	85	250	967
3565	Industrial trucks and tractors.	5	3	290	1,282	206	455	764	1,945	4,507	(D)	(D)	(D)
3566	Power-transmission equipment...	4	3	414	1,408	336	625	1,121	1,708	2,379	(D)	(D)	(D)
358	Service and household machines.....	17	14	5,451	22,686	4,024	8,241	14,846	50,841	(2)	6,218	5,400	26,996
3585	Refrigeration machinery.....	5	4	980	3,999	780	1,652	2,663	11,734	(2)	616	347	1,445
3589	Service & household mach., nec.	4	3	179	553	120	268	336	774	2,314	45	158	(D)
359	Miscellaneous machinery parts	67	13	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3591	Valves and fittings, exc. plbg.	8	5	1,568	6,651	1,230	2,636	4,506	15,318	24,379	1,944	1,194	6,189
36	Electrical machinery.....	39	20	9,162	32,207	7,047	14,266	22,175	57,841	(2)	1,672	5,127	17,795
361	Electrical industrial apparatus.....	13	6	611	2,235	486	1,034	1,573	3,852	(2)	504	(D)	(D)
3614	Motors and generators.....	4	3	323	1,366	246	541	968	2,629	4,597	56	(D)	(D)
366	Communication equipment.....	18	11	6,890	25,010	5,073	10,497	16,299	44,575	(2)	1,085	(D)	(D)
369	Electrical products, n.e.c....	6	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3692	Primary batteries.....	3	3	1,596	4,772	1,443	2,647	4,187	9,041	15,606	64	(D)	(D)
37	Transportation equipment...	45	14	4,705	21,014	3,923	8,472	16,315	29,797	(2)	1,769	2,803	9,616
371	Motor vehicles and equipment.	25	8	1,188	4,741	1,048	2,080	3,896	10,628	(2)	180	(D)	(D)
3713	Truck and bus bodies.....	8	2	287	1,050	261	579	910	1,406	3,020	39	471	1,748
3717	Motor vehicles and parts.....	9	3	669	2,688	577	1,085	2,217	7,612	(2)	93	(D)	(D)
3799	Transportation equipment, nec	12	2	124	370	108	238	300	620	1,264	69	297	857
38	Scientific instruments.....	11	3	2,044	8,568	1,434	2,978	5,637	16,850	(2)	154	860	3,474
39	Miscellaneous manufactures.	152	46	8,989	36,113	7,302	14,373	24,627	84,924	(2)	1,847	6,536	25,898
394	Toys and sporting goods.....	27	10	619	1,582	552	1,062	1,268	2,352	(2)	210	(D)	(D)
3949	Sporting and athletic goods....	22	8	540	1,332	487	947	1,115	1,926	3,775	135	333	(D)
395	Office supplies.....	11	3	1,972	11,005	1,551	3,031	5,780	21,112	(2)	578	(D)	(D)
396	Costume jewelry and notions..	22	14	1,486	3,458	1,316	2,344	2,507	4,204	(2)	66	2,003	5,434
398 399	} Miscellaneous manufactures <sup>4</sup> ..	84	19	4,871	19,951	3,847	7,864	14,986	57,090	(2)	975	1,126	3,481
3988	Morticians' goods.....	10	4	225	779	176	326	467	1,234	2,178	20	267	1,183
3993	Signs and advertising displays.	47	7	574	2,021	445	913	1,377	3,481	5,566	134	609	1,657

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industries (4-digit) and industry groups (3-digit) are not shown. Industries and industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "all industries" line.

<sup>2</sup>The total value of shipments figures for industry groups and a few individual industries have not been published due to the extensive and unmeasurable duplication arising from shipments from one establishment to another in the same industry classification. (See Introduction.)

<sup>3</sup>Comparable data for Major groups 20 and 24 are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude establishments in S.I.C. Industry 2411, Logging Camps and Contractors, which are included in the scope of the 1954 Census; the 1947 Census also excludes plants processing and distributing fluid milk which in 1954 are classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	All industries except subgroups 202 and 2411, total.....	156,060	1,188,523	137,490	654,200
20	Food and kindred products except subgroup 202, Dairy products.....	44,654	313,894	43,508	271,853
24	Lumber and wood products except Industry 2411, Logging camps and contractors.....	5,618	27,635	4,700	19,990

<sup>4</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories". (Establishments which are Government-owned and operated are not included.)

Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUPS: 1954 AND 1947  
(This State contained no standard metropolitan area with 40,000 or more manufacturing employees in 1954 or 1947)

## MANUFACTURES—AREA STATISTICS

Table 6.—GENERAL STATISTICS FOR PRINCIPAL INDUSTRIAL COUNTIES, BY MAJOR INDUSTRY GROUP: 1954 AND 1947

(Principal industrial counties include all counties with 20,000 or more manufacturing employees. For explanation of column captions see Introduction)

Code	Major industry group	1954								1947	
		Establish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendit- ures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
		POLK COUNTY									
	All industries, total <sup>1</sup> .....	385	22,482	94,592	16,047	31,801	61,644	186,245	14,368	<sup>2</sup> 16,090	<sup>2</sup> 86,907
20	Food and kindred products.....	74	4,264	17,165	2,562	5,014	8,591	32,931	2,485	(NA)	(NA)
22	Textile mill products.....	5	274	829	230	437	645	1,542	6	(NA)	(NA)
23	Apparel and related products..	12	570	1,386	474	905	952	2,204	26	(NA)	(NA)
24	Lumber and wood products.....	8	172	653	147	303	492	1,185	23	(NA)	(NA)
25	Furniture and fixtures.....	15	317	1,359	243	480	746	2,017	56	(NA)	(NA)
26	Pulp, paper and products.....	6	165	602	142	315	410	1,178	49	(NA)	(NA)
27	Printing and publishing.....	77	4,039	18,085	2,138	4,053	9,778	41,214	1,453	(NA)	(NA)
28	Chemicals and products.....	27	544	2,059	372	762	1,164	4,840	1,416	(NA)	(NA)
31	Leather and leather goods.....	5	289	794	260	473	666	1,066	8	(NA)	(NA)
32	Stone, clay, & glass products.	24	779	3,093	664	1,413	2,474	8,124	234	(NA)	(NA)
34	Fabricated metal products.....	41	1,903	8,081	1,427	2,875	5,328	14,942	541	(NA)	(NA)
35	Machinery, except electrical..	36	2,467	11,079	1,874	3,573	7,576	19,927	738	(NA)	(NA)
37	Transportation equipment.....	10	3,323	15,544	2,717	6,055	11,870	18,412	1,562	(NA)	(NA)

D Withheld to avoid disclosing data for individual companies.

NA Not available.

<sup>1</sup>In order to avoid disclosing data for individual companies, the statistics for some industry groups are not shown. Industry groups reporting less than 100 employees are also omitted. They are included, however, in the "All industries" line.<sup>2</sup>The 1954 and 1947 "All industries" totals are not strictly comparable because of differences in coverage of loggers and fluid milk distributors. See discussion in Introduction and footnote to Table 4 for comparable figures at the State level.



Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954

20 Food and kindred products	26 Pulp, paper and products	32 Stone, clay, and glass products	38 Instruments and related products
21 Tobacco manufactures	27 Printing and publishing	33 Primary metal industries	39 Miscellaneous manufactures (Includes Group 19 Ordinance and accessories)
22 Textile mill products	28 Chemicals and products	34 Fabricated metal products	
23 Apparel and related products	29 Petroleum and coal products	35 Machinery, except electrical	
24 Lumber and wood products	30 Rubber products	36 Electrical machinery	
25 Furniture and fixtures	31 Leather and leather goods	37 Transportation equipment	

(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Iowa.....	3,320	1,086	...	9	82	198	74	31	632	171	7	14	11	182	65	187	324	39	45	11	152
1 to 4 employees.....	1,395	437	...	1	17	123	35	3	335	53	2	8	2	86	17	64	113	10	19	6	64
5 to 9 employees.....	611	209	...	...	14	32	9	1	141	39	2	...	3	32	8	36	52	3	3	1	26
10 to 19 employees.....	433	166	...	2	10	15	11	4	69	30	2	1	...	20	8	33	30	6	9	1	16
20 to 49 employees.....	396	134	...	2	16	11	4	10	56	22	...	2	2	20	11	24	52	7	4	...	19
50 to 99 employees.....	211	64	...	2	10	9	5	5	16	16	1	...	...	12	10	15	26	3	4	1	12
100 to 249 employees.....	180	57	...	2	13	2	9	7	9	7	...	...	4	6	8	12	24	4	3	1	12
250 to 499 employees.....	39	4	...	...	2	3	1	1	4	3	...	...	...	5	...	1	12	2	1	...	...
500 to 999 employees.....	24	3	...	...	...	3	...	...	...	...	...	2	...	1	2	2	6	3	1	...	...
1,000 to 2,499 employees.....	23	9	...	...	...	...	...	...	2	1	...	1	...	...	1	...	7	...	...	1	...
2,500 employees and over.....	8	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	1	1	...	1
Adair:																					
1 to 19 employees.....	7	1	...	...	2	...	...	...	2	...	...	...	...	...	...	...	1	...	...	...	1
Adams:																					
1 to 19 employees.....	3	1	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Allamakee:																					
1 to 19 employees.....	22	9	...	...	1	7	...	...	3	...	...	...	...	...	...	...	1	...	1	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Appanoose:																					
1 to 19 employees.....	14	5	...	...	1	...	...	...	4	...	...	...	...	1	1	1	...	...	...	...	1
20 to 99 employees.....	5	1	...	...	...	...	...	...	1	...	...	...	...	1	...	...	1	...	...	...	1
100 employees and over.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Audubon:																					
1 to 19 employees.....	11	6	...	...	...	1	...	...	2	...	...	...	...	2	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Benton:																					
1 to 19 employees.....	19	6	...	...	...	3	...	...	2	3	...	...	...	2	...	1	2	...	...	...	...
20 to 99 employees.....	3	2	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Black Hawk:																					
1 to 19 employees.....	91	25	...	1	2	3	3	...	16	1	1	1	...	3	5	7	12	2	3	1	5
20 to 99 employees.....	38	9	...	...	1	3	...	1	3	3	...	...	...	2	4	4	7	...	...	...	1
100 employees and over.....	14	3	...	...	2	...	...	...	1	...	...	...	...	...	...	1	6	...	...	...	1
Boone:																					
1 to 19 employees.....	23	7	...	...	...	2	...	...	7	3	...	...	...	1	...	...	3	...	...	...	...
20 to 99 employees.....	4	2	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
Bremer:																					
1 to 19 employees.....	35	19	...	...	...	1	...	...	3	3	...	...	...	2	...	...	5	...	1	...	1
20 to 99 employees.....	4	3	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
Buchanan:																					
1 to 19 employees.....	15	5	...	...	1	4	1	...	1	1	...	...	...	...	...	...	1	...	...	1	...
20 to 99 employees.....	3	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Buena Vista:																					
1 to 19 employees.....	28	10	...	...	...	3	...	...	6	2	...	...	...	1	...	2	4	...	...	...	...
20 to 99 employees.....	5	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	...	...
100 employees and over.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Butler:																					
1 to 19 employees.....	20	11	...	...	...	...	...	...	5	1	...	...	...	1	...	...	2	...	...	...	...
Calhoun:																					
1 to 19 employees.....	20	10	...	...	...	1	...	...	6	2	...	...	...	...	...	...	1	...	...	...	...
Carroll:																					
1 to 19 employees.....	14	5	...	...	...	...	...	...	5	3	...	...	...	...	...	...	1	...	...	...	...
20 to 99 employees.....	6	3	...	...	...	1	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...
100 employees and over.....	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Cass:																					
1 to 19 employees.....	19	9	...	...	...	1	1	...	6	1	...	...	...	...	...	...	1	...	...	...	...
20 to 99 employees.....	3	2	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Cedar:																					
1 to 19 employees.....	18	7	...	...	...	3	1	...	5	...	...	...	...	...	1	...	1	...	...	...	...
Cerro Gordo:																					
1 to 19 employees.....	32	11	...	...	...	1	...	...	4	2	1	1	1	2	...	7	...	...	...	...	2
20 to 99 employees.....	22	9	...	...	2	1	...	1	4	3	...	...	...	1	...	...	1	...	...	...	...
100 employees and over.....	6	2	...	...	...	...	...	...	1	...	...	...	...	3	...	...	...	...	...	...	...
Cherokee:																					
1 to 19 employees.....	20	10	...	...	...	...	1	...	3	...	...	...	...	1	...	...	4	...	...	...	1
20 to 99 employees.....	3	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...
Chickasaw:																					
1 to 19 employees.....	19	13	...	...	...	...	2	...	2	...	...	...	...	2	...	...	...	...	...	...	...
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Clarke:																					
1 to 19 employees.....	5	4	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Clay:																					
1 to 19 employees.....	24	8	...	...	...	...	1	...	6	2	...	...	...	2	...	...	3	...	1	...	1
20 to 99 employees.....	5	3	...	...	...	...	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	2	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Clayton:																					
1 to 19 employees.....	44	23	...	...	...	11	...	...	5	...	...	...	...	1	...	1	...	...	1	...	2
20 to 99 employees.....	4	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...

Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954—Continued  
(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establish- ments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Clinton:																					
1 to 19 employees.....	42	13	...	...	1	4	2	1	9	1	...	...	...	5	1	2	1	...	...	...	2
20 to 99 employees.....	8	2	...	...	...	...	...	...	2	...	...	...	...	...	1	...	2	1	...	...	...
100 employees and over.....	14	3	...	...	1	2	...	1	...	2	...	...	...	...	1	3	1	...	...	...	...
Crawford:																					
1 to 19 employees.....	15	5	...	...	...	1	1	...	6	...	...	...	...	1	...	1	...	...	...	...	...
Dallas:																					
1 to 19 employees.....	15	7	...	...	...	...	...	...	4	1	...	...	...	...	...	1	2	...	...	...	...
20 to 99 employees.....	12	3	...	...	...	...	...	...	1	2	...	...	...	3	1	...	2	...	...	...	...
Davis:																					
1 to 19 employees.....	3	1	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	3	...	...	...	...	...	1	...	1	...	...	...	...	...	...	...	1	...	...	...	...
Decatur:																					
1 to 19 employees.....	11	5	...	...	...	1	...	...	4	1	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Delaware:																					
1 to 19 employees.....	21	14	...	...	...	2	...	...	3	...	...	...	...	1	...	1	...	...	...	...	...
Des Moines:																					
1 to 19 employees.....	37	11	...	...	1	3	...	...	6	2	...	...	...	3	...	2	1	1	2	...	5
20 to 99 employees.....	23	5	...	...	1	2	1	2	2	1	...	...	...	...	1	2	1	2	...	...	3
100 employees and over.....	15	1	...	...	1	...	3	...	2	...	...	...	...	...	1	...	2	4	...	...	1
Dickinson:																					
1 to 19 employees.....	14	3	...	...	1	...	...	...	5	...	...	...	...	2	1	...	...	...	2	...	...
20 to 99 employees.....	2	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Dubuque:																					
1 to 19 employees.....	74	29	...	...	1	10	2	...	15	3	...	...	...	3	...	4	1	...	1	...	5
20 to 99 employees.....	23	6	...	...	2	1	...	1	...	3	...	...	...	1	...	3	3	...	...	...	3
100 employees and over.....	16	2	...	...	1	2	1	2	1	...	...	...	...	...	...	1	5	1	...	...	...
Emmet:																					
1 to 19 employees.....	13	6	...	...	...	2	...	...	3	...	...	...	...	1	...	...	...	...	...	...	1
20 to 99 employees.....	6	4	...	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Fayette:																					
1 to 19 employees.....	34	23	...	...	...	2	...	...	4	...	...	...	...	2	...	1	2	...	...	...	...
20 to 99 employees.....	4	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Floyd:																					
1 to 19 employees.....	22	10	...	...	...	...	2	...	5	3	...	...	...	...	...	...	1	...	...	...	...
20 to 99 employees.....	4	...	...	...	1	...	...	...	1	...	...	...	...	1	...	...	1	...	...	...	...
100 employees and over.....	2	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	1	...	...	...	...
Franklin:																					
1 to 19 employees.....	19	10	...	...	...	1	...	...	3	...	...	...	...	3	...	1	1	...	...	...	...
20 to 99 employees.....	4	2	...	...	...	...	...	...	...	...	...	...	...	1	...	...	1	...	...	...	...
Fremont:																					
1 to 19 employees.....	6	1	...	...	...	1	...	...	2	...	...	...	...	...	...	...	1	...	...	...	1
20 to 99 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Greene:																					
1 to 19 employees.....	15	6	...	...	...	1	...	...	3	1	...	...	...	3	...	...	...	1	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Grundy:																					
1 to 19 employees.....	12	7	...	...	...	...	...	...	3	1	...	...	...	...	...	...	1	...	...	...	...
20 to 99 employees.....	5	3	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...
Guthrie:																					
1 to 19 employees.....	9	3	...	...	...	1	...	...	5	...	...	...	...	...	...	...	...	...	...	...	...
Hamilton:																					
1 to 19 employees.....	14	4	...	...	...	1	...	...	3	2	...	...	...	...	1	...	2	...	...	...	1
20 to 99 employees.....	10	2	...	...	...	...	...	...	2	...	...	...	...	...	1	1	3	...	...	...	1
100 employees and over.....	2	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
Hancock:																					
1 to 19 employees.....	12	5	...	...	...	2	...	...	4	1	...	...	...	...	...	...	...	...	...	...	...
Hardin:																					
1 to 19 employees.....	35	14	...	...	...	5	1	...	7	2	...	...	...	4	...	...	2	...	...	...	...
20 to 99 employees.....	3	2	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Harrison:																					
1 to 19 employees.....	13	4	...	...	...	3	...	...	4	...	...	...	...	...	...	...	2	...	...	...	...
Henry:																					
1 to 19 employees.....	8	3	...	...	...	1	...	...	1	...	...	...	...	...	...	...	3	...	...	...	...
20 to 99 employees.....	3	...	...	...	2	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Howard:																					
1 to 19 employees.....	12	6	...	...	...	1	...	...	2	1	...	...	...	1	...	...	1	...	...	...	...
Humboldt:																					
1 to 19 employees.....	14	6	...	...	...	2	1	...	3	...	...	...	...	1	...	...	1	...	...	...	...
20 to 99 employees.....	2	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Ida:																					
1 to 19 employees.....	12	5	...	...	...	...	...	...	3	2	...	...	...	...	...	...	2	...	...	...	...
Iowa:																					
1 to 19 employees.....	14	8	...	...	...	1	1	...	3	...	...	...	...	...	...	...	...	...	...	...	1
100 employees and over.....	2	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
Jackson:																					
1 to 19 employees.....	19	9	...	...	...	5	...	...	3	...	1	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	4	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	...	...	1
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
Jasper:																					
1 to 19 employees.....	24	8	...	...	...	...	1	...	7	...	...	...	...	1	1	...	2	...	1	1	2
20 to 99 employees.....	4	...	...	...	...	...	1	...	1	...	...	...	...	...	1	...	...	...	...	...	1
100 employees and over.....	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3	1	...	...	...	2

Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954—Continued  
(Counties and size classes in which no manufacturing establishments were reported are omitted)

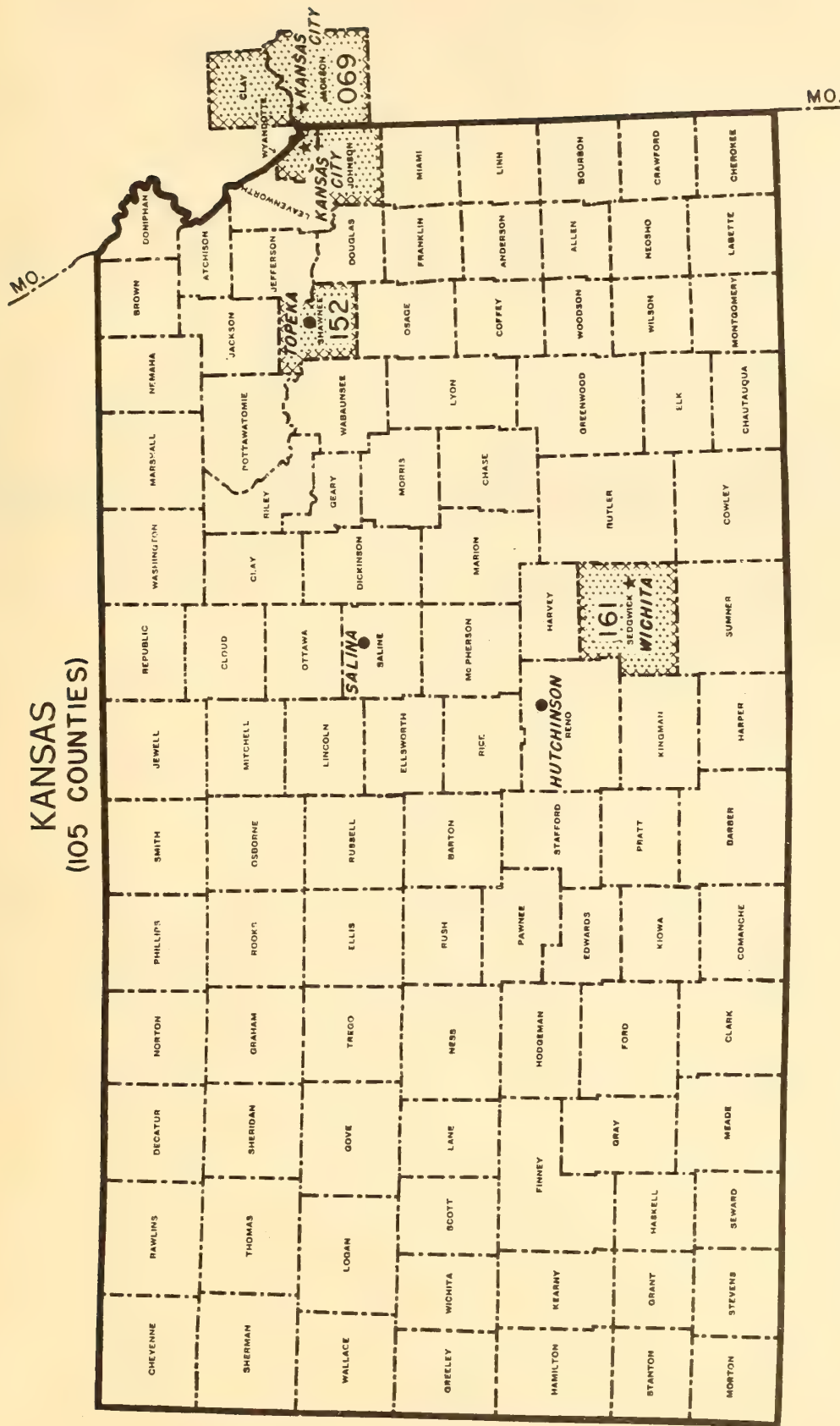
State, county, and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Jefferson:																					
1 to 19 employees.....	11	2	...	...	...	1	...	...	2	...	...	...	...	3	...	1	2	...	...	...	...
20 to 99 employees.....	6	...	...	...	...	...	...	...	1	1	...	...	...	...	1	...	2	...	...	...	1
100 employees and over.....	5	...	...	...	2	...	...	...	...	...	...	...	...	...	1	...	2	...	...	...	...
Johnson:																					
1 to 19 employees.....	34	16	...	...	1	3	...	...	4	1	...	...	...	1	...	...	2	1	1	2	2
20 to 99 employees.....	5	3	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Jones:																					
1 to 19 employees.....	18	3	...	...	...	3	...	1	7	...	...	...	...	1	...	2	1	...	...	...	...
20 to 99 employees.....	6	1	...	...	1	...	...	...	...	...	...	...	...	1	...	...	2	...	...	...	1
Keokuk:																					
1 to 19 employees.....	13	2	...	...	1	3	...	...	5	...	...	...	...	1	...	...	1	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Kossuth:																					
1 to 19 employees.....	27	11	...	...	...	2	...	...	7	1	...	...	...	1	...	...	3	...	...	...	2
20 to 99 employees.....	3	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	...	...
Lee:																					
1 to 19 employees.....	37	15	...	...	...	3	...	...	6	2	...	...	...	2	1	2	4	...	...	...	2
20 to 99 employees.....	14	3	...	...	1	...	...	1	2	1	...	...	...	...	...	3	2	...	...	...	1
100 employees and over.....	12	2	...	...	...	...	...	2	...	3	...	1	1	...	2	...	...	...	...	...	1
Linn:																					
1 to 19 employees.....	135	29	...	...	1	6	3	...	28	7	...	...	...	6	3	21	17	4	3	1	6
20 to 99 employees.....	35	9	...	...	...	1	...	1	3	4	...	1	...	1	...	5	5	2	1	1	1
100 employees and over.....	26	10	...	...	...	...	1	2	2	...	...	...	...	...	...	1	8	1	1	...	...
Louisa:																					
1 to 19 employees.....	12	2	...	...	...	1	...	...	4	1	...	1	...	1	...	...	1	...	...	...	1
Lucas:																					
1 to 19 employees.....	9	2	...	...	1	...	...	...	4	...	...	...	...	...	...	...	1	...	...	...	1
20 to 99 employees.....	3	...	...	...	2	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...
Lyon:																					
1 to 19 employees.....	11	3	...	...	1	...	...	...	2	1	...	...	...	2	...	1	1	...	...	...	...
Madison:																					
1 to 19 employees.....	4	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	1	1	...	...	...
Mahaska:																					
1 to 19 employees.....	21	5	...	...	...	7	...	...	4	...	...	...	...	...	...	...	...	...	...	...	3
20 to 99 employees.....	4	2	...	...	...	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	3	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1	1	...	...	...	...
Marion:																					
1 to 19 employees.....	15	4	...	...	1	1	1	...	4	...	...	...	...	2	...	1	1	...	...	...	...
20 to 99 employees.....	4	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...
100 employees and over.....	2	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Marshall:																					
1 to 19 employees.....	33	14	...	...	1	2	...	...	3	1	...	...	...	2	1	1	7	...	...	...	1
20 to 99 employees.....	13	4	...	...	...	...	...	1	2	1	...	...	...	...	3	2	...	...	...	...	...
100 employees and over.....	8	1	...	...	...	...	...	...	...	...	...	...	...	...	2	1	3	...	...	1	...
Mills:																					
1 to 19 employees.....	5	1	...	...	...	2	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Mitchell:																					
1 to 19 employees.....	15	7	...	...	...	2	...	...	3	1	...	...	...	1	...	1	...	...	...	...	...
20 to 99 employees.....	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Monona:																					
1 to 19 employees.....	8	3	...	...	...	...	...	...	3	...	...	...	1	...	...	1	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Monroe:																					
1 to 19 employees.....	13	3	...	...	...	1	...	...	3	1	...	...	...	2	...	2	...	...	...	...	1
Montgomery:																					
1 to 19 employees.....	14	4	...	...	...	3	...	...	4	...	...	...	...	1	1	...	1	...	...	...	...
20 to 99 employees.....	3	...	...	...	...	...	...	...	1	...	...	...	...	1	...	1	...	...	...	...	...
100 employees and over.....	2	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1	...	...	...
Muscatine:																					
1 to 19 employees.....	39	13	...	...	...	4	...	...	4	...	...	...	...	3	1	3	3	...	...	...	8
20 to 99 employees.....	15	5	...	...	1	1	...	...	1	1	...	...	...	...	...	1	2	...	...	...	3
100 employees and over.....	13	3	...	...	...	2	1	...	...	1	...	...	...	...	...	...	1	...	...	...	5
O'Brien:																					
1 to 19 employees.....	20	9	...	...	...	...	...	...	7	...	...	...	...	3	...	...	1	...	...	...	...
20 to 99 employees.....	4	3	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
Osceola:																					
1 to 19 employees.....	11	2	...	...	...	...	...	...	4	...	...	...	...	2	...	1	...	...	...	...	2
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Page:																					
1 to 19 employees.....	18	7	...	...	1	...	...	...	5	3	...	...	...	...	...	1	...	...	1	...	...
20 to 99 employees.....	3	...	...	...	...	...	...	...	1	...	...	...	...	...	...	1	1	...	...	...	...
Palo Alto:																					
1 to 19 employees.....	15	5	...	...	...	1	...	...	4	1	...	...	...	2	...	...	2	...	...	...	...
Plymouth:																					
1 to 19 employees.....	22	7	...	...	1	...	...	...	5	2	...	...	...	3	...	1	3	...	...	...	...
20 to 99 employees.....	2	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Pocahontas:																					
1 to 19 employees.....	12	4	...	...	...	...	...	...	5	1	...	1	...	...	...	...	1	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
Polk:																					
1 to 19 employees.....	259	36	...	2	5	6	12	3	65	20	2	2	2	16	5	28	24	3	5	1	22
20 to 99 employees.....	84	25	...	2	5	2	1	3	9	6	...	...	1	6	1	7	8	...	2	...	6
100 employees and over.....	42	13	...	1	2	...	2	...	3	1	...	2	2	2	...	6	4	...	3	...	1



## MANUFACTURES—AREA STATISTICS

Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954—Continued  
(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establish- ments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Pottawattamie:																					
1 to 19 employees.....	62	15	...	...	5	4	5	...	10	7	...	...	...	1	2	3	6	1	...	1	2
20 to 99 employees.....	12	3	...	...	...	...	2	1	2	...	...	...	...	...	1	...	1	1	1	...	...
100 employees and over.....	3	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	1	...	...
Poweshiek:																					
1 to 19 employees.....	17	6	...	...	1	1	...	...	5	1	...	...	...	...	...	1	...	1	...	...	1
20 to 99 employees.....	5	...	...	...	1	...	...	...	...	1	...	...	1	...	...	...	...	...	1	...	1
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
Ringgold:																					
1 to 19 employees.....	6	3	...	...	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...
Sac:																					
1 to 19 employees.....	24	11	...	...	...	...	...	...	6	3	...	...	...	2	...	...	2	...	...	...	...
20 to 99 employees.....	4	2	...	...	...	...	...	...	...	...	...	...	...	1	...	...	1	...	...	...	...
Scott:																					
1 to 19 employees.....	108	21	...	...	3	7	5	...	15	5	...	1	1	6	4	14	20	...	...	...	6
20 to 99 employees.....	34	8	...	...	2	1	...	1	4	1	...	...	...	1	2	2	9	...	...	...	3
100 employees and over.....	24	7	...	...	2	...	1	...	1	...	...	...	...	2	4	...	5	...	1	1	...
Shelby:																					
1 to 19 employees.....	13	4	...	...	...	...	...	...	6	1	...	...	...	1	...	1	...	...	...	...	...
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sioux:																					
1 to 19 employees.....	28	8	...	...	...	...	...	...	10	2	...	...	...	3	...	1	2	1	...	...	1
20 to 99 employees.....	4	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...
Story:																					
1 to 19 employees.....	28	7	...	...	...	1	...	...	10	3	...	...	...	1	...	2	1	...	2	...	1
20 to 99 employees.....	11	7	...	...	...	...	...	...	2	...	...	...	...	1	...	...	1	...	...	...	...
100 employees and over.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tama:																					
1 to 19 employees.....	11	4	...	...	...	1	...	...	5	1	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	2	...	...	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
Taylor:																					
1 to 19 employees.....	7	3	...	...	...	...	...	...	2	...	...	...	...	...	...	...	1	...	1	...	...
100 employees and over.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Union:																					
1 to 19 employees.....	15	6	...	...	...	2	...	...	5	...	...	...	...	2	...	...	...	...	...	...	...
20 to 99 employees.....	3	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...
100 employees and over.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Van Buren:																					
1 to 19 employees.....	10	4	...	...	...	2	...	...	3	...	...	...	...	...	...	...	1	...	...	...	...
20 to 99 employees.....	3	...	...	...	1	...	...	...	1	...	...	...	...	...	...	1	...	...	...	...	...
Wapello:																					
1 to 19 employees.....	32	12	...	...	1	1	1	...	7	1	...	...	...	2	1	2	3	...	...	...	1
20 to 99 employees.....	15	4	...	...	...	1	1	...	1	...	...	...	...	1	2	1	4	...	...	...	...
100 employees and over.....	4	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...
Warren:																					
1 to 19 employees.....	4	...	...	...	...	...	...	...	1	1	...	...	...	...	...	1	1	...	...	...	...
20 to 99 employees.....	3	1	...	...	...	...	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...
Washington:																					
1 to 19 employees.....	14	9	...	...	...	1	...	...	2	...	...	...	...	1	...	1	...	...	...	...	...
20 to 99 employees.....	5	1	...	...	...	...	...	...	3	1	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Wayne:																					
1 to 19 employees.....	9	2	...	...	...	...	...	1	3	1	...	...	...	...	...	...	1	1	...	...	...
Webster:																					
1 to 19 employees.....	34	9	...	...	1	2	...	...	6	1	...	...	...	2	3	3	2	...	1	...	4
20 to 99 employees.....	17	5	...	...	2	...	...	1	...	1	...	...	...	4	...	1	2	1	...	...	...
100 employees and over.....	10	2	...	...	...	...	...	...	1	2	...	...	...	4	...	...	1	...	...	...	...
Winnebago:																					
1 to 19 employees.....	9	6	...	...	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	3	2	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Winnehsiek:																					
1 to 19 employees.....	19	14	...	...	...	2	...	...	1	...	...	1	...	...	...	...	...	...	1	...	...
20 to 99 employees.....	3	1	...	...	...	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Woodbury:																					
1 to 19 employees.....	94	19	...	...	6	3	7	1	23	4	1	1	...	5	...	4	8	1	3	...	8
20 to 99 employees.....	36	15	...	...	...	1	1	1	2	3	...	1	...	2	2	3	2	...	2	...	1
100 employees and over.....	16	10	...	...	1	...	1	...	1	...	...	...	...	...	...	...	1	2	...	...	...
Worth:																					
1 to 19 employees.....	8	4	...	...	...	...	...	...	2	...	...	...	...	1	...	...	...	1	...	...	...
Wright:																					
1 to 19 employees.....	15	5	...	...	...	...	...	...	5	2	...	...	...	...	...	1	2	...	...	...	...
20 to 99 employees.....	3	2	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...



STANDARD METROPOLITAN AREAS

CODE  
069 KANSAS CITY, MO.  
152 TOPEKA  
161 WICHITA

LEGEND

● PLACES OF 25,000 TO 100,000 (1950)  
★ PLACES OF 100,000 AND OVER (1950)  
STANDARD METROPOLITAN AREAS

## MANUFACTURES—AREA STATISTICS

Table 1.—MANUFACTURING EMPLOYMENT AT OPERATING ESTABLISHMENTS AND CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARIES FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS

(This table includes data for all manufacturing employees including those located in central administrative offices and auxiliaries. Tables 2-7 in this report include data for operating establishments only. For explanation of column captions see Introduction)

State, standard metropolitan areas, and year <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	(Number)	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
Kansas:						
1954.....	131,432	560,483	131,017	558,457	415	2,026
1953 <sup>2</sup> .....	137,572	567,027	136,886	563,615	686	3,412
1952 <sup>2</sup> .....	141,777	552,129	140,346	548,033	<sup>3</sup> 1,431	<sup>3</sup> 4,096
1951 <sup>2</sup> .....	113,305	421,230	111,874	417,134	1,431	4,096
1950 <sup>2</sup> .....	88,389	285,855	87,622	283,031	767	2,824
1949 <sup>2</sup> .....	83,413	248,042	82,090	243,790	1,323	4,252
1954						
Standard metropolitan areas:						
Kansas City <sup>4</sup> .....	118,053	515,791	115,132	497,764	2,921	18,027
Topeka <sup>5</sup> .....	6,174	24,060	6,010	23,711	164	349
Wichita <sup>6</sup> .....	53,260	237,765	53,190	237,206	70	559

<sup>1</sup> Employment data for administrative offices and auxiliaries on a State basis are not available for the years prior to 1949. Similar data for standard metropolitan areas are available only for 1954.<sup>2</sup> The employment figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period. The employment figures for administrative and auxiliary units were compiled chiefly from Bureau of Old-Age and Survivors Insurance records and are not strictly comparable with the figures for these units that were collected by the Bureau of the Census for the year 1954.<sup>3</sup> The 1951 data are shown for 1952 since auxiliary and administrative unit data were not collected in 1952.<sup>4</sup> The Kansas City (Kansas)-Kansas City (Missouri) Standard Metropolitan Area consists of Johnson and Wyandotte Counties, Kansas; Clay and Jackson Counties, Missouri.<sup>5</sup> The Topeka Standard Metropolitan Area consists of Shawnee County, Kansas.<sup>6</sup> The Wichita Standard Metropolitan Area consists of Sedgwick County, Kansas.



Table 2.—GENERAL STATISTICS FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Year	Establish- ments, number	All employees		Production workers		Value added by manufacture (\$1,000)		
		Number	Payroll (\$1,000)	Number	Wages (\$1,000)			
KANSAS								
1954 <sup>1</sup> .....	2,139	131,017	558,457	98,187	400,619	1,049,291		
1953 <sup>2</sup> .....	}	136,886	563,615	107,039	415,734	1,000,724		
1952 <sup>2</sup> .....		140,346	548,033	112,138	412,987	971,356		
1951 <sup>2</sup> .....		111,874	417,134	89,267	313,928	749,333		
1950 <sup>2</sup> .....		(NA)	87,622	283,031	69,982	209,397	613,500	
1949 <sup>2</sup> .....		82,090	243,790	63,767	174,038	499,492		
1947.....	1,946	74,634	204,840	59,370	151,299	461,110		
1939.....	1,418	42,564	56,412	30,935	36,088	117,391		
1937.....	1,526	42,515	56,107	34,128	40,513	127,348		
1935.....	1,492	37,666	44,678	30,481	31,518	108,371		
1933.....	1,272	}	(NA)	{	32,608	31,143	96,850	
1931.....	1,578		(NA)		36,042	43,720	124,132	
1929.....	1,916	57,341	85,210	47,373	63,348	205,367		
1927.....	1,767	}	(NA)	{	45,368	59,925	163,429	
1925.....	1,878				46,659	59,207	168,048	
1923.....	1,786				51,255	65,056	150,610	
1921.....	1,926	}	}	44,938	59,208	133,007		
1919.....	3,149			72,479	93,581	60,179	71,888	161,566
1914.....	3,130			48,775	34,978	41,249	25,965	62,070
1909.....	3,435			51,078	33,255	44,215	25,904	66,220
1904.....	2,475			39,291	22,576	35,570	18,883	41,735
1899.....	2,299	30,731	15,925	27,119	12,802	33,271		
KANSAS CITY STANDARD METROPOLITAN AREA								
1954 <sup>1</sup> .....	1,513	115,132	497,764	84,903	336,026	1,039,592		
1947.....	1,347	78,686	218,970	61,735	156,262	469,807		
1939.....	1,023	50,680	73,102	38,085	47,410	147,655		
1929.....	1,163	54,008	80,401	44,203	57,076	222,620		
1919.....	1,392	(NA)	(NA)	48,546	55,322	129,365		
WICHITA STANDARD METROPOLITAN AREA								
1954 <sup>1</sup> .....	439	53,190	237,206	39,093	169,904	332,703		
1947.....	(NA)	17,140	(NA)	(NA)	(NA)	86,487		

NA Not available.

<sup>1</sup>The 1954 figures include data for establishments engaged in the processing and distribution of fluid milk, Industry Group 202, Dairy Products. These establishments were not included in the figures for the Annual Survey years 1949-1953 or earlier Census years. In addition, the 1954 Census and Annual Survey years include data for Logging camps and contractors, Industry 2411, which were not included within the scope of the 1947 Census. See footnotes to Table 4 for comparable 1954 and 1947 totals. There were also a number of changes in the definition of manufacturing industries during earlier Census years that affect the comparability of the historical series. Among the more important of these were: figures for 1935 and later years exclude data for "Railroad repair shops" and "Manufactured gas" which were included in 1899-1933 figures; the minimum size of establishment included for 1954 and 1947 was one employee, for 1939-1921 manufacturing establishments reporting value of shipments of \$5,000 or more were within scope whereas for 1919 and earlier years the cutoff was \$500. (This change in procedure has not appreciably affected the comparability of the historical data except for the figures on number of establishments.)

<sup>2</sup>The employment and payroll figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments.) The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period.

## MANUFACTURES—AREA STATISTICS

Table 3.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947

(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
Kansas, total.....	1,905,299	2,139	131,017	558,457	98,187	203,102	400,619	1,049,291	53,017	( <sup>1</sup> )	( <sup>1</sup> )
STANDARD METROPOLITAN AREAS											
Kansas City area.....	814,357	1,513	115,132	497,764	84,903	168,431	336,026	1,039,592	45,821	78,686	469,807
Portion in Kansas.....	228,101	264	36,527	166,422	27,819	56,566	121,315	379,989	10,732	21,500	137,757
Portion in Missouri.....	586,256	1,249	78,604	331,341	57,083	111,864	214,711	659,603	35,088	57,186	332,050
Topeka area.....	105,418	138	6,010	23,711	4,243	8,291	15,503	56,929	3,138	5,974	29,317
Wichita area.....	222,290	439	53,190	237,206	39,093	82,375	169,904	332,703	5,880	17,140	86,487
COUNTIES											
Allen.....	18,187	23	875	3,111	787	1,619	2,692	8,890	2,025	836	5,294
Anderson.....	10,267	10	100	236	85	177	197	333	13	77	182
Atchison.....	21,496	29	1,711	6,219	1,417	2,820	4,789	16,597	575	1,640	10,419
Barber.....	8,521	3	238	(D)	193	(D)	(D)	(D)	(D)	89	(D)
Barton.....	29,909	28	438	1,768	305	734	1,152	2,519	227	564	4,534
Bourbon.....	19,153	35	689	1,865	512	1,099	1,310	3,431	191	802	3,516
Brown.....	14,651	9	115	315	86	166	234	852	18	114	481
Butler.....	31,001	26	1,605	7,827	1,213	2,445	5,496	17,604	4,853	1,399	19,503
Chase.....	4,831	3	8	...	6	(D)	(D)	(D)	(D)	16	34
Chautauqua.....	7,376	9	42	76	32	67	66	130	13	21	61
Cherokee.....	25,144	18	1,622	6,609	1,229	2,404	4,611	21,309	790	1,378	12,394
Cheyenne.....	5,668	4	16	27	8	14	17	56	...	16	34
Clark.....	3,946	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6	26
Clay.....	11,697	13	166	458	118	258	304	610	30	140	(D)
Cloud.....	16,104	17	327	1,069	187	431	555	1,795	271	163	1,017
Coffey.....	10,408	6	27	43	24	35	40	86	3	84	215
Comanche.....	3,888	4	31	78	26	58	68	170	(D)	19	(D)
Cowley.....	36,905	42	2,002	7,378	1,582	3,313	5,533	15,154	1,543	1,670	40,150
Crawford.....	40,231	46	1,145	4,136	839	1,633	2,916	8,250	997	1,363	6,774
Decatur.....	6,185	4	14	34	9	13	19	77	(D)	12	34
Dickinson.....	21,190	21	561	2,201	421	926	1,428	3,954	121	488	4,705
Doniphan.....	10,499	7	25	29	20	31	24	58	4	8	24
Douglas.....	34,086	33	1,172	4,761	831	1,879	3,228	10,903	11,581	835	4,804
Edwards.....	5,936	6	41	108	30	59	73	244	(D)	21	(D)
Elk.....	6,679	7	37	94	33	76	85	222	44	33	(D)
Ellis.....	19,043	17	165	541	115	229	360	1,213	82	164	(D)
Ellsworth.....	8,465	6	12	27	10	16	20	64	3	133	(D)
Finney.....	15,092	16	270	918	207	390	657	982	343	292	1,197
Ford.....	19,670	31	539	1,790	316	652	886	3,508	245	264	2,109
Franklin.....	19,928	26	548	1,777	397	794	1,114	3,654	169	721	4,085
Geary.....	21,671	17	182	620	121	273	397	1,191	127	165	821
Gove.....	4,447	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6	8
Graham.....	5,020	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	8	(D)
Grant.....	4,638	5	236	1,041	129	289	572	1,597	(D)	277	(D)
Gray.....	4,894	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4	16
Greeley.....	2,010	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Greenwood.....	13,574	12	92	375	74	131	175	421	46	62	254
Hamilton.....	3,696	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6	25
Harper.....	10,263	11	54	169	32	57	85	341	13	90	443
Harvey.....	21,698	28	471	1,596	335	745	1,070	3,276	318	338	4,195
Haskell.....	2,606	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Hodgeman.....	3,310	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Jackson.....	11,098	8	105	282	90	163	197	459	10	46	265
Jefferson.....	11,084	6	119	409	97	253	337	436	28	53	170
Jewell.....	9,698	4	9	21	6	12	15	41	3	12	54
Johnson.....	62,783	49	5,151	21,983	4,255	8,094	17,361	26,122	2,296	324	1,225
Kearny.....	3,492	3	18	52	15	43	44	163	(D)	(D)	(D)
Kingman.....	10,324	7	41	(D)	(D)	(D)	(D)	(D)	(D)	54	(D)
Kiowa.....	4,743	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Labette.....	29,285	33	2,158	8,137	1,429	3,118	5,035	11,821	816	578	1,557
Lane.....	2,808	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Leavenworth.....	42,361	26	1,201	4,287	1,016	2,022	3,342	9,260	313	1,258	6,328
Lincoln.....	6,643	4	36	106	30	70	91	242	(D)	7	15
Linn.....	10,053	5	30	46	26	45	38	36	(D)	29	64
Logan.....	4,206	6	25	54	21	39	42	92	9	(D)	(D)
Lyon.....	26,576	26	611	1,908	486	969	1,355	5,187	291	388	1,895
McPherson.....	23,670	21	576	2,435	420	885	1,739	11,059	436	648	12,198
Marion.....	16,307	10	247	894	163	372	507	1,781	182	231	878
Marshall.....	17,926	15	267	857	212	442	635	1,778	107	363	1,585
Meade.....	5,710	5	20	53	13	21	30	98	(D)	20	70

See footnotes at end of table.

## KANSAS

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Table 3.--GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
Miami.....	19,698	18	420	1,269	358	714	971	2,333	61	267	923
Mitchell.....	10,320	11	49	106	41	69	82	125	15	97	484
Montgomery.....	46,487	76	5,262	20,848	4,368	8,656	16,519	37,186	785	3,899	23,460
Morris.....	8,485	5	77	248	40	86	104	351	63	26	106
Morton.....	2,610	4	11	22	8	17	16	50	3	5	22
Nemaha.....	14,341	12	175	574	143	331	456	835	58	167	935
Neosho.....	20,348	26	835	2,978	694	1,518	2,373	7,683	278	697	4,399
Ness.....	6,322	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Norton.....	8,808	7	49	133	34	69	78	289	107	62	373
Osage.....	12,811	10	62	108	46	77	80	212	8	55	115
Osborne.....	8,558	7	42	113	37	60	91	185	6	27	89
Ottawa.....	7,265	6	35	75	29	62	64	145	13	51	174
Pawnee.....	11,041	11	105	368	87	202	293	603	46	151	763
Phillips.....	9,273	5	122	(D)	108	(D)	(D)	(D)	(D)	76	(D)
Pottawatomie.....	12,344	9	84	294	70	149	224	472	14	67	476
Pratt.....	12,156	16	418	1,354	338	694	945	2,273	86	87	301
Rawlins.....	5,728	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Reno.....	54,058	89	2,720	10,540	2,117	4,461	7,318	22,646	1,468	2,585	17,890
Republic.....	11,478	10	55	120	44	83	96	200	12	33	139
Rice.....	15,635	7	94	335	68	148	228	605	44	223	1,739
Riley.....	33,405	23	280	800	198	392	536	1,301	77	251	1,077
Rooks.....	9,043	3	11	20	8	14	15	70	(D)	(D)	(D)
Rush.....	7,231	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	13	61
Russell.....	13,406	9	62	162	46	97	116	295	25	69	(D)
Saline.....	33,409	54	1,497	5,717	966	2,130	3,389	12,038	515	1,213	8,593
Scott.....	4,921	3	105	(D)	87	(D)	(D)	(D)	(D)	90	(D)
Sedgwick.....	222,290	439	53,190	237,206	39,093	82,375	169,904	332,703	5,880	17,140	86,487
Seward.....	9,972	10	141	494	107	244	308	761	37	145	822
Shawnee.....	105,418	138	6,010	23,711	4,243	8,291	15,503	56,929	3,138	5,974	29,317
Sheridan.....	4,607	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Sherman.....	7,373	5	28	69	24	43	57	174	(D)	47	159
Smith.....	8,846	6	28	72	22	44	63	190	130	90	293
Stafford.....	8,816	5	32	104	22	46	59	132	110	43	(D)
Stanton.....	2,263	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Stevens.....	4,516	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Sumner.....	23,646	27	390	1,358	278	594	960	2,704	312	376	2,225
Thomas.....	7,572	7	25	55	18	36	43	112	2	14	50
Trego.....	5,868	3	11	22	8	16	16	51	5	(D)	(D)
Wabaunsee.....	7,212	3	10	(D)	7	(D)	(D)	(D)	(D)	12	(D)
Wallace.....	2,508	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Washington.....	12,977	7	17	31	13	22	23	55	(D)	47	(D)
Wichita.....	2,640	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Wilson.....	14,815	26	869	3,493	699	1,397	2,794	5,906	358	958	6,807
Woodson.....	6,711	5	22	46	15	29	32	132	(D)	(D)	(D)
Wyandotte.....	165,318	215	31,375	144,439	23,564	48,472	103,954	353,866	8,435	21,176	136,532
CITIES WITH 10,000 INHAB- ITANTS OR MORE											
Arkansas City.....	12,903	14	696	2,544	518	977	1,695	4,031	715	844	4,094
Atchison.....	12,792	27	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Chanute.....	10,109	14	295	836	235	469	594	1,398	30	305	1,306
Coffeyville.....	17,113	38	1,273	4,905	968	2,023	3,519	9,413	320	1,944	10,632
Dodge City.....	11,262	25	513	1,730	295	612	837	3,382	231	NA	NA
El Dorado.....	11,037	13	130	407	98	161	266	789	16	96	371
Emporia.....	15,669	23	595	(D)	471	(D)	(D)	(D)	(D)	290	(D)
Fort Scott.....	10,335	28	629	1,703	464	1,000	1,195	3,179	93	777	(D)
Garden City.....	10,905	10	95	331	59	125	203	473	230	NA	NA
Great Bend.....	12,665	14	208	844	127	306	479	1,174	138	NA	NA
Hutchinson.....	33,575	68	1,840	6,905	1,395	2,856	4,587	13,358	971	2,138	(D)
Independence.....	11,335	18	401	1,285	237	503	679	2,489	88	515	2,380
Junction City.....	13,462	17	182	620	121	273	397	1,191	127	NA	NA
Kansas City.....	129,553	184	16,413	71,003	12,054	23,616	49,676	158,406	5,933	19,330	127,234
Lawrence.....	23,351	25	631	2,643	434	1,007	1,697	4,568	425	578	3,589
Leavenworth.....	20,579	23	1,151	(D)	976	(D)	(D)	(D)	(D)	(D)	(D)
Manhattan.....	19,056	19	266	772	185	371	508	1,234	71	203	801
Newton.....	11,590	18	345	1,222	243	555	852	2,624	269	263	3,988
Ottawa.....	10,081	20	511	1,633	367	719	1,000	3,292	146	681	3,879
Parsons.....	14,750	19	450	1,239	348	679	952	2,692	73	506	(D)

See footnotes at end of table.



## MANUFACTURES--AREA STATISTICS

Table 3.--GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
Pittsburg.....	19,341	26	930	3,551	687	1,336	2,506	7,085	915	1,109	5,251
Salina.....	26,176	48	1,416	5,427	904	1,996	3,179	11,259	429	1,177	(D)
Topeka.....	78,791	125	4,126	15,699	2,654	5,227	9,060	32,206	1,369	4,745	(D)
Wichita.....	168,279	391	17,755	79,130	13,293	28,237	55,249	139,436	4,269	13,543	70,700
Winfield.....	10,264	13	333	1,155	265	603	870	3,060	109	NA	NA

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>The 1947 data are not strictly comparable with the figures shown for 1954 due to differences in coverage of loggers and fluid milk distributors. See discussion in Introduction and footnotes to Table 4.

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954											1947	
		Establish- ments, number		All employees		Production workers			Value added by manufacture	Value of shipments	Capital expendi- tures, new	All employees, number	Value added by manufacture	
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)	
	All industries, total <sup>1</sup> ...	2,139	572	131,017	558,457	98,187	203,102	400,619	1,049,291	( <sup>2</sup> )	53,017	( <sup>3</sup> )	( <sup>3</sup> )	
20	Food and kindred products..	642	172	23,451	89,221	16,689	35,919	59,839	173,989	( <sup>2</sup> )	10,085	( <sup>3</sup> )	( <sup>3</sup> )	
201	Meat products.....	88	29	10,161	42,001	7,760	16,481	30,801	57,933	( <sup>2</sup> )	2,788	14,001	52,344	
2011	Meat packing plants.....	51	22	9,484	40,165	7,192	15,345	29,415	55,396	( <sup>2</sup> )	2,435	13,310	49,319	
2013	Prepared meats.....	8	2	223	813	181	376	597	1,288	( <sup>2</sup> )	224	(D)	(D)	
2015	Poultry dressing, plants.....	29	5	453	1,022	387	759	787	1,247	10,893	128	(D)	(D)	
202	Dairy products.....	190	40	3,926	12,827	2,392	5,255	7,084	26,460	( <sup>2</sup> )	2,147	( <sup>3</sup> )	( <sup>3</sup> )	
2021	Creamery butter.....	28	10	1,050	3,242	749	1,573	2,166	5,766	35,533	500	( <sup>3</sup> )	( <sup>3</sup> )	
2022	Natural cheese.....	10	1	113	295	89	209	237	679	3,693	99	( <sup>3</sup> )	( <sup>3</sup> )	
2023	Concentrated milk.....	8	2	176	629	146	345	500	2,036	7,250	62	( <sup>3</sup> )	( <sup>3</sup> )	
2024	Ice cream and ices.....	30	3	270	888	153	318	411	2,220	4,997	155	( <sup>3</sup> )	( <sup>3</sup> )	
2027	Fluid milk and other products..	93	24	2,232	7,609	1,192	2,682	3,642	15,184	47,340	1,249	( <sup>3</sup> )	( <sup>3</sup> )	
203	Canned and frozen foods.....	8	2	257	703	227	499	575	2,553	( <sup>2</sup> )	72	(D)	(D)	
204	Grain mill products.....	107	48	3,904	15,842	2,909	6,778	11,279	44,365	( <sup>2</sup> )	2,691	6,256	66,864	
2041	Flour and meal.....	37	30	2,698	11,216	2,014	4,611	8,043	34,832	213,942	1,991	4,367	55,734	
205	Bakery products.....	87	27	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
2051	Bread and related products....	85	25	2,037	7,669	1,218	2,526	3,791	14,006	26,165	806	2,151	(D)	
208	Beverages.....	79	12	1,084	3,668	580	1,144	1,548	7,740	( <sup>2</sup> )	892	810	3,828	
209	Miscellaneous foods.....	76	13	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
2097	Manufactured ice.....	39	5	396	1,130	239	500	681	1,927	2,392	69	805	3,083	
2099	Food preparation, n.e.c.....	30	6	464	1,391	384	682	912	4,101	17,674	327	(D)	(D)	
22	Textile mill products.....	2	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...	...	
23	Apparel and related prod- ucts.....	63	27	2,406	5,383	2,161	4,047	4,351	8,593	( <sup>2</sup> )	197	2,175	6,818	
232	Men's and boys' furnishings..	7	5	714	1,429	666	1,173	1,237	2,462	( <sup>2</sup> )	20	685	1,624	
233	Women's and misses' outerwear	12	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
2334	Dresses, dozen price.....	6	4	294	639	273	505	537	1,142	2,314	(D)	299	730	
239	Fabricated textiles, n.e.c....	35	7	679	1,881	555	1,072	1,326	2,665	( <sup>2</sup> )	115	573	2,696	
24	Lumber and wood products...	101	20	1,209	4,028	1,015	2,014	2,984	6,174	( <sup>2</sup> )	134	( <sup>3</sup> )	( <sup>3</sup> )	
242	Lumber and basic products....	34	3	209	624	180	340	478	1,006	( <sup>2</sup> )	11	(D)	(D)	
243	Millwork and related products	43	11	760	2,795	621	1,280	2,005	4,019	( <sup>2</sup> )	78	490	1,841	
2431	Millwork plants.....	39	9	522	2,037	424	883	1,506	2,568	5,590	73	(D)	(D)	
244	Wooden containers.....	10	5	179	485	158	297	387	951	( <sup>2</sup> )	17	188	645	
25	Furniture and fixtures.....	41	7	718	2,414	599	1,192	1,922	5,095	( <sup>2</sup> )	119	1,013	3,472	
251	Household furniture.....	20	4	546	1,868	458	901	1,499	4,174	( <sup>2</sup> )	84	747	2,554	
2515	Mattresses and bedsprings.....	12	3	445	1,597	369	729	1,281	3,685	7,426	63	(D)	(D)	
26	Pulp, paper and products...	19	11	1,860	7,942	1,507	3,281	6,010	16,605	( <sup>2</sup> )	958	1,357	12,024	
27	Printing and publishing....	472	65	7,893	28,486	5,070	9,620	17,483	54,265	( <sup>2</sup> )	2,755	5,651	26,201	
2711	Newspapers.....	277	35	4,313	15,730	2,224	4,337	8,239	28,206	39,858	977	3,180	13,510	
273	Books.....	10	3	420	2,206	267	528	1,088	3,165	( <sup>2</sup> )	124	281	2,113	
2751	Commercial printing.....	108	15	1,080	3,765	827	1,618	2,858	6,535	10,143	661	1,042	3,664	
2761	Lithographing.....	24	3	494	1,878	407	813	1,431	2,792	4,317	267	181	828	
278	Bookbinding and related industries.....	7	2	287	1,156	217	438	736	1,712	( <sup>2</sup> )	23	(D)	(D)	
28	Chemicals and products.....	85	39	9,407	41,340	7,155	12,810	29,872	109,561	( <sup>2</sup> )	17,050	5,065	66,841	
281	Inorganic chemicals.....	10	7	1,443	6,512	940	1,939	4,149	24,082	( <sup>2</sup> )	11,890	(D)	(D)	
283	Drugs and medicines.....	14	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
2831	Biological products.....	8	4	206	795	139	271	450	1,319	3,152	(D)	(D)	(D)	
284	Soap and related products....	8	2	1,672	7,803	1,176	1,009	5,206	43,916	( <sup>2</sup> )	1,072	(D)	(D)	
2841	Soap and glycerin.....	4	2	1,661	7,783	1,168	993	5,190	43,881	72,703	1,068	(D)	(D)	
285	Paints and allied products...	7	4	516	1,995	404	727	1,373	6,121	( <sup>2</sup> )	158	(D)	(D)	
287	Fertilizers.....	11	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
2872	Fertilizers, mixing only.....	8	2	111	405	83	194	252	1,329	5,400	56	(D)	(D)	
288	Vegetables and animal oils...	11	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
2886	Grease and tallow.....	7	3	141	526	89	195	297	929	2,217	100	264	2,223	
289	Chemical products, n.e.c.....	21	11	939	3,565	691	1,423	2,466	10,128	( <sup>2</sup> )	1,857	1,099	8,501	
2896	Compressed and liquefied gases.	8	3	176	767	124	253	467	1,796	2,524	(D)	74	(D)	
2898	Salt.....	3	3	415	1,508	369	777	1,281	5,863	8,098	491	(D)	(D)	
29	Petroleum and coal products	25	17	4,343	21,763	3,325	6,713	15,951	51,096	( <sup>2</sup> )	7,130	4,549	51,118	
2911	Petroleum refining.....	17	14	4,132	20,924	3,216	6,468	15,579	49,316	363,641	(D)	(D)	(D)	
299	Petroleum and coal products, n.e.c.....	8	3	210	839	109	244	371	1,779	4,192	(D)	162	957	
2992	Lubricants, n.e.c.....	8	3	210	839	109	244	371	1,779	4,192	(D)	162	957	
30	Rubber products.....	8	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
31	Leather and leather goods..	9	1	126	358	99	159	239	504	( <sup>2</sup> )	4	138	466	
314	Footwear, except rubber.....	5	1	114	340	90	148	228	469	747	4	104	395	
3141	Footwear, except rubber.....	5	1	114	340	90	148	228	469	747	4	104	395	

See footnotes at end of table.



Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establish- ments, number		All employees		Production workers			Value added by manufacture	Value of shipments	Capital expendi- tures, new	All employees, number	Value added by manufacture
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
32	Stone, clay and glass products.....	100	36	5,296	20,919	4,360	9,299	16,839	56,053	( <sup>2</sup> )	4,649	3,305	17,527
3241	Cement, hydraulic.....	7	7	1,425	5,486	1,229	2,536	4,488	19,401	26,058	2,492	1,361	10,424
325	Structural clay products.....	14	11	885	3,138	784	1,668	2,650	5,699	( <sup>2</sup> )	274	648	2,534
3251	Brick and hollow tile.....	10	7	361	1,239	322	719	982	2,234	2,866	(D)	(D)	(D)
327	Concrete and plaster products	56	13	2,663	11,119	2,077	4,548	8,816	28,602	( <sup>2</sup> )	1,778	1,200	4,141
3281	Cut-stone and stone products.	8	3	142	488	113	241	383	770	1,148	42	...	...
33	Primary metal industries...	31	15	891	3,090	788	1,593	2,496	5,280	( <sup>2</sup> )	178	1,379	(D)
332	Iron and steel foundries....	14	7	474	1,787	413	865	1,429	2,857	3,919	81	(D)	(D)
3321	Gray-iron foundries.....	14	7	474	1,787	413	865	1,429	2,857	3,919	81	(D)	(D)
34	Fabricated metal products..	149	45	5,771	24,596	4,368	8,674	16,378	42,891	( <sup>2</sup> )	1,307	3,977	22,037
344	Structural metal products....	81	28	2,599	11,311	1,975	3,958	7,394	15,298	( <sup>2</sup> )	704	1,651	7,568
3441	Structural and ornamental work.	31	13	1,331	5,694	966	2,031	3,566	8,098	17,417	502	1,025	6,278
3442	Metal doors, sash, and trim....	13	3	171	660	119	140	231	1,062	2,564	21	(D)	(D)
3443	Boiler shop products.....	13	6	770	3,507	651	1,304	2,649	4,115	8,032	71	(D)	(D)
3444	Sheet-metal work.....	24	6	325	1,449	238	481	947	2,022	4,873	109	(D)	(D)
346	Metal stamping and coating...	23	5	356	1,396	271	569	987	2,744	( <sup>2</sup> )	121	(D)	(D)
348	Fabricated wire products.....	9	4	247	691	223	389	549	1,198	2,164	24	(D)	(D)
3489	Wirework, n.e.c.....	9	4	247	691	223	389	549	1,198	2,164	24	(D)	(D)
35	Machinery, except electrical	212	60	8,224	35,145	6,393	13,289	24,631	62,994	( <sup>2</sup> )	3,404	5,023	28,024
352	Tractors and farm machinery..	51	10	1,134	4,475	808	1,662	3,257	8,199	( <sup>2</sup> )	305	1,308	8,545
353	Construction and mining ma- chinery.....	17	8	1,182	5,069	892	1,791	3,342	9,424	( <sup>2</sup> )	973	1,614	8,197
3531	Construction & mining machinery	9	6	566	2,434	428	865	1,631	5,050	8,466	(D)	(D)	(D)
3532	Oil-field machinery and tools..	8	2	616	2,635	463	926	1,711	4,373	8,009	(D)	(D)	(D)
354	Metalworking machinery.....	32	8	516	2,054	440	888	1,619	2,962	( <sup>2</sup> )	158	(D)	(D)
3544	Special dies and tools.....	28	7	452	1,887	392	818	1,523	2,662	3,416	141	(D)	(D)
355	Special-industry machinery, n.e.c.....	11	5	233	1,094	178	379	735	2,398	( <sup>2</sup> )	73	753	4,302
356	General industrial machinery.	19	12	1,916	8,455	1,406	2,909	5,471	12,329	( <sup>2</sup> )	741	360	1,977
3561	Pumps and compressors.....	6	4	1,086	4,799	825	1,730	3,456	5,637	12,465	(D)	(D)	(D)
3563	Conveyors.....	9	7	773	3,488	538	1,131	1,929	6,516	13,211	(D)	(D)	(D)
358	Service and household ma- chines.....	7	4	2,107	9,173	1,715	3,644	6,457	19,543	( <sup>2</sup> )	738	(D)	(D)
359	Miscellaneous machinery parts	73	13	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3599	Machine shops.....	60	10	718	3,258	604	1,322	2,542	5,110	7,293	(D)	(D)	(D)
36	Electrical machinery.....	17	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
366	Communication equipment.....	8	3	251	1,022	199	379	657	1,510	( <sup>2</sup> )	(D)	(D)	(D)
369	Electrical products, n.e.c....	6	3	197	715	167	351	515	2,482	( <sup>2</sup> )	54	(D)	(D)
37	Transportation equipment...	72	34	54,644	254,793	41,014	87,122	188,341	413,316	( <sup>2</sup> )	(D)	9,847	51,344
372	Aircraft and parts.....	48	27	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3721	Aircraft.....	5	5	44,996	209,209	32,829	69,927	152,128	296,659	763,921	872	(D)	(D)
38	Instruments and related products.....	14	2	121	404	87	168	270	739	( <sup>2</sup> )	46	(D)	(D)
39	Miscellaneous manufactures <sup>4</sup>	77	12	2,312	9,033	1,569	3,357	5,555	13,115	( <sup>2</sup> )	841	634	2,406
394	Toys and sporting goods.....	10	1	101	285	90	165	248	375	( <sup>2</sup> )	(D)	160	512

NOTE: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industries (4-digit) and industry groups (3-digit) are not shown. Industries and industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "all industries" line.<sup>2</sup>The total value of shipments figures for industry groups and a few individual industries have not been published due to the extensive and unmeasurable duplication arising from shipments from one establishment to another in the same industry classification. (See Introduction.)<sup>3</sup>Comparable data are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude establishments in S.I.C. Industry 2411, Logging Camps and Contractors, which are included in the scope of the 1954 Census; the 1947 Census also excludes plants processing and distributing fluid milk which in 1954 were classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
20	All industries except subgroups 202 and 2411, total.....	127,040	1,022,650	72,994	452,139
24	Food and kindred products except subgroup 202, Dairy products.....	19,525	147,529	26,053	143,149
24	Lumber and wood products except Industry 2411, logging camps and contractors.....	1,158	5,993	935	3,731

<sup>4</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)



## MANUFACTURES—AREA STATISTICS

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Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947

(For explanation of column captions see Introduction)

Code	Industry group	Establishments, number	1954							1947		
			All employees		Production workers			Value added by manufacture	Capital expenditures, new	All employees, number	Value added by manufacture	
			Number	Payroll (\$1,000)	Number	Man-hours ((1,000)	Wages (\$1,000)					
			"All manufacturing" totals for the Kansas City (Kansas) - Kansas City (Missouri) Standard Metropolitan Area (which includes Johnson and Wyandotte Counties in Kansas) appear in Table 3. Industry group statistics for this area are shown in the 1954 Census of Manufactures report for the State of Missouri.									
			WICHITA STANDARD METROPOLITAN AREA (Consists of Sedgwick County, Kansas)									
	All industries, total <sup>1</sup> ...	439	53,190	237,206	39,093	82,375	169,904	332,703	5,880	<sup>2</sup> 17,140	<sup>2</sup> 86,487	
20	Food and kindred products...	66	3,630	14,651	2,569	5,530	9,567	24,241	1,222	(NA)	(NA)	
201	Meat products.....	10	1,707	7,169	1,301	2,780	5,387	8,059	510	(NA)	(NA)	
202	Dairy products.....	9	359	1,329	206	461	668	2,775	195	(NA)	(NA)	
204	Grain mill products.....	9	498	2,278	428	1,015	1,751	6,036	216	(NA)	(NA)	
205	Bakery products.....	13	583	2,288	329	670	1,021	4,122	183	(NA)	(NA)	
208	Beverages.....	8	236	819	104	241	288	1,867	83	(NA)	(NA)	
22	Textile mill products.....	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
23	Apparel & related products..	13	371	940	321	569	669	1,772	87	(NA)	(NA)	
24	Lumber and wood products....	21	162	557	135	251	416	943	16	(NA)	(NA)	
25	Furniture and fixtures.....	17	126	419	104	217	305	572	35	(NA)	(NA)	
26	Pulp, paper and products....	4	75	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
27	Printing and publishing.....	66	1,657	7,312	871	1,695	4,059	11,252	532	(NA)	(NA)	
271	Newspapers.....	10	1,013	3,916	447	837	2,099	6,388	323	(NA)	(NA)	
275	Commercial printing.....	26	153	591	119	226	435	1,051	44	(NA)	(NA)	
276	Lithographing.....	10	184	922	144	306	684	1,351	49	(NA)	(NA)	
28	Chemicals and products.....	17	361	1,505	275	548	991	3,991	721	(NA)	(NA)	
29	Petroleum and coal products..	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
30	Rubber products.....	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
31	Leather and leather goods...	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
32	Stone, clay & glass prod....	14	200	693	154	329	441	1,622	168	(NA)	(NA)	
327	Concrete and plaster products..	9	179	587	136	297	386	1,114	167	(NA)	(NA)	
33	Primary metal industries....	15	345	1,231	310	655	1,035	1,785	26	(NA)	(NA)	
332	Iron and steel foundries.....	7	242	894	215	470	742	1,243	4	(NA)	(NA)	
34	Fabricated metal products...	57	3,120	13,710	2,310	4,585	8,853	26,859	394	(NA)	(NA)	
344	Structural metal products.....	24	582	2,632	445	867	1,539	4,037	65	(NA)	(NA)	
346	Metal stamping and coating.....	14	178	690	137	281	490	1,294	70	(NA)	(NA)	
35	Machinery, exc. electrical..	72	3,417	14,650	2,700	5,605	10,319	26,607	1,067	(NA)	(NA)	
352	Tractors and farm machinery....	9	412	1,530	256	508	1,172	3,145	74	(NA)	(NA)	
354	Metalworking machinery.....	20	428	1,788	372	773	1,442	2,503	128	(NA)	(NA)	
355	Special Industry mach., nec....	4	104	478	78	165	324	505	30	(NA)	(NA)	
359	Miscellaneous mach. parts.....	29	265	1,226	216	453	875	1,828	158	(NA)	(NA)	
36	Electrical machinery.....	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
37	Transportation equipment....	40	39,166	178,867	28,857	61,385	131,503	228,309	1,079	(NA)	(NA)	
38	Instruments & related prod..	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
39	Miscellaneous manufactures <sup>3</sup> ..	24	238	849	186	358	530	1,380	41	(NA)	(NA)	
399	Miscellaneous manufactures.....	13	132	612	108	221	378	976	29	(NA)	(NA)	

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industry groups (3-digit) are not shown. Industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "All industries" line.<sup>2</sup>The 1954 and 1947 "All industries" totals are not strictly comparable because of differences in coverage of loggers and fluid milk distributors. See discussion in Introduction and footnote to Table 4 for comparable figures at the State level.<sup>3</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-- owned and operated are not included.)

## MANUFACTURES—AREA STATISTICS

Table 6.—GENERAL STATISTICS FOR PRINCIPAL INDUSTRIAL COUNTIES, BY MAJOR INDUSTRY GROUP: 1954 AND 1947

(Principal industrial counties include all counties with 20,000 or more manufacturing employees. For explanation of column captions see Introduction)

Code	Major industry group	1954								1947	
		Establishments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendit- ures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
		(Sedgwick County is coextensive with the Wichita Standard Metropolitan Area. Data for this area are shown in Table 5.)									
		WYANDOTTE COUNTY									
	All industries, total <sup>1</sup> .....	215	31,375	144,439	23,564	48,472	103,954	353,866	8,435	<sup>2</sup> 21,176	<sup>2</sup> 136,532
20	Food and Kindred products.....	51	8,713	36,442	6,473	13,599	25,991	64,650	2,339	11,224	47,590
23	Apparel and related products...	7	312	836	253	504	609	1,077	12	253	(D)
24	Lumber and wood products.....	10	372	1,382	307	651	968	2,188	8	240	(D)
26	Pulp, paper and products.....	8	1,232	5,060	1,008	2,140	3,952	10,305	614	816	8,069
27	Printing and publishing.....	24	328	1,354	212	406	831	2,689	147	283	(D)
28	Chemical and products.....	24	2,231	9,949	1,546	1,746	6,518	48,887	1,341	1,927	(D)
32	Stone, Clay, and glass products	14	2,126	9,297	1,628	3,542	7,400	23,888	1,549	856	(D)
34	Fabricated metal products.....	19	1,376	5,988	1,066	2,127	4,274	8,697	453	914	2,944
35	Machinery, except electrical...	19	1,385	6,405	1,024	2,155	4,417	10,148	684	255	2,189
39	Miscellaneous manufactures <sup>3</sup> ....	11	118	430	107	217	324	679	19	106	(D)

D Withheld to avoid disclosing data for individual companies.

<sup>1</sup>In order to avoid disclosing data for individual companies, the statistics for some industry groups are not shown. Industry groups reporting less than 100 employees are also omitted. They are included, however, in the "All industries" line.<sup>2</sup>The 1954 and 1947 "All industries" totals are not strictly comparable because of differences in coverage of loggers and fluid milk distributors. See discussion in Introduction and footnote to Table 4 for comparable figures at the State level.<sup>3</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)

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20 Food and kindred products	2 Pulp, paper and products	32 Stone, clay, and glass products	38 Instruments and related products
21 Tobacco manufactures	27 Printing and publishing	33 Primary metal industries	39 Miscellaneous manufactures (Includes Group 19 Ordnance and accessories)
22 Textile mill products	28 Chemicals and products	34 Fabricated metal products	
23 Apparel and related products	29 Petroleum and coal products	35 Machinery, except electrical	
24 Lumber and wood products	30 Rubber products	36 Electrical machinery	
25 Furniture and fixtures	31 Leather and leather goods	37 Transportation equipment	

State, county, and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Kansas, total.....	2,139	642	...	2	63	101	41	19	472	85	25	8	9	100	31	149	212	17	72	14	77
1 to 4 employees.....	886	219	...	1	20	64	19	4	264	25	5	3	6	30	8	59	84	7	17	6	45
5 to 9 employees.....	396	131	...	1	8	8	8	2	98	13	2	4	1	20	8	25	42	1	10	5	9
10 to 19 employees.....	286	121	...	...	8	9	7	2	45	8	1	...	1	14	...	20	26	1	11	1	11
20 to 49 employees.....	265	75	...	...	8	15	5	2	39	19	3	...	...	16	8	24	27	5	10	2	7
50 to 99 employees.....	148	56	...	...	11	3	1	3	9	7	2	...	1	6	5	14	17	...	9	...	4
100 to 249 employees.....	107	34	...	...	8	2	...	5	12	8	6	...	...	9	2	3	10	3	5	...	...
250 to 499 employees.....	21	2	...	...	...	...	1	...	3	1	3	...	...	4	...	1	4	...	2	...	...
500 to 999 employees.....	14	1	...	...	...	...	...	1	2	2	3	...	...	1	...	2	1	...	1	...	...
1,000 to 2,499 employees.....	9	1	...	...	...	...	...	...	1	...	1	...	...	...	...	1	1	...	3	...	...
2,500 employees and over.....	7	2	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	4	...	...
Allen:																					
1 to 19 employees.....	13	5	...	...	...	2	...	...	3	1	...	...	...	1	...	...	1	...	...	...	...
20 to 99 employees.....	8	2	...	...	1	...	...	...	2	...	...	...	...	2	1	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...
Anderson:																					
1 to 19 employees.....	8	2	...	...	...	...	...	...	1	...	...	...	...	2	...	2	1	...	...	...	...
20 to 99 employees.....	2	...	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Atchison:																					
1 to 19 employees.....	16	5	...	...	1	2	...	...	1	1	...	...	...	1	1	1	2	...	...	...	1
20 to 99 employees.....	8	3	...	...	1	...	...	...	2	...	...	...	...	...	...	1	...	...	...	1	...
100 employees and over.....	5	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	1	...	...
Barber:																					
1 to 19 employees.....	2	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Barton:																					
1 to 19 employees.....	22	9	...	...	1	...	...	...	5	...	...	...	...	3	...	2	1	...	1	...	...
20 to 99 employees.....	6	2	...	...	...	...	...	...	1	...	...	...	...	1	...	1	1	...	...	...	...
Bourbon:																					





Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954—Continued  
(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Logan:																					
1 to 19 employees.....	6	2	...	...	...	1	...	...	2	...	...	...	1	...	...	...	...	...	...	...	...
Lyon:																					
1 to 19 employees.....	19	10	...	...	1	2	...	...	2	...	...	...	...	...	...	...	3	...	...	...	1
20 to 99 employees.....	6	3	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	1	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
McPherson:																					
1 to 19 employees.....	15	7	...	...	...	1	...	1	5	...	...	...	...	...	...	1	...	...	...	...	...
20 to 99 employees.....	5	4	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...
Marion:																					
1 to 19 employees.....	8	2	...	...	...	...	...	...	5	...	...	...	...	...	...	...	1	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
100 employees and over.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Marshall:																					
1 to 19 employees.....	11	4	...	...	1	...	...	...	6	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	4	1	...	...	...	...	...	...	...	1	...	...	...	1	...	...	...	1	...	...	...
Meade:																					
1 to 19 employees.....	5	3	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...
Miami:																					
1 to 19 employees.....	13	6	...	...	...	3	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	4	...	...	...	3	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
Mitchell:																					
1 to 19 employees.....	11	4	...	...	...	...	...	...	3	...	...	...	...	1	...	...	1	2	...	...	...
Montgomery:																					
1 to 19 employees.....	48	13	...	...	2	5	2	...	6	2	2	...	...	2	2	4	5	1	...	...	...
20 to 99 employees.....	18	7	...	...	1	...	...	...	4	...	...	...	...	2	2	...	2	...	...	...	...
100 employees and over.....	10	2	...	...	...	...	...	...	...	1	1	...	...	2	1	...	2	...	1	...	...
Morris:																					
1 to 19 employees.....	4	2	...	...	...	...	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Morton:																					
1 to 19 employees.....	4	1	...	...	...	...	...	...	1	...	...	...	...	1	...	...	1	...	...	...	...
Nemaha:																					
1 to 19 employees.....	11	4	...	...	...	1	...	...	4	...	...	...	...	...	...	...	2	...	...	...	...
100 employees and over.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Neosho:																					
1 to 19 employees.....	16	5	...	...	...	2	...	...	1	1	1	...	...	...	...	2	3	...	...	...	...
20 to 99 employees.....	7	...	...	...	1	...	...	...	2	...	2	...	...	...	...	...	1	...	1	...	...
100 employees and over.....	3	1	...	...	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Ness:																					
1 to 19 employees.....	2	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...
Norton:																					
1 to 19 employees.....	7	2	...	...	...	...	1	...	2	...	...	...	...	1	...	...	1	...	...	...	...
Osage:																					
1 to 19 employees.....	9	2	...	...	1	...	...	...	5	1	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Osborne:																					
1 to 19 employees.....	6	1	...	...	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Ottawa:																					
1 to 19 employees.....	6	4	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
Pawnee:																					
1 to 19 employees.....	10	4	...	...	1	...	...	...	2	...	...	2	...	...	...	...	1	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...
Phillips:																					
1 to 19 employees.....	4	2	...	...	...	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...
Pottawatomie:																					
1 to 19 employees.....	7	2	...	...	...	...	...	...	5	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	2	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
Pratt:																					
1 to 19 employees.....	8	3	...	...	...	...	...	...	1	...	...	...	...	1	...	...	2	...	...	...	...
20 to 99 employees.....	8	2	...	...	...	...	...	...	1	...	...	...	...	...	...	2	2	...	...	...	...
Rawlins:																					
1 to 19 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Reno:																					
1 to 19 employees.....	61	24	...	...	2	1	1	2	13	3	...	...	...	2	...	3	6	...	1	1	...
20 to 99 employees.....	19	9	...	...	1	1	...	...	...	1	...	...	...	...	...	2	5	...	...	...	...
100 employees and over.....	9	2	...	...	...	...	...	1	1	3	...	...	...	...	...	1	...	...	1	...	...
Republic:																					
1 to 19 employees.....	9	4	...	...	...	...	...	...	5	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
Rice:																					
1 to 19 employees.....	5	1	...	...	...	...	...	...	3	...	...	...	...	...	...	1	...	...	...	...	...
20 to 99 employees.....	2	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
Riley:																					
1 to 19 employees.....	19	8	...	...	...	1	...	5	1	...	...	...	...	2	...	...	...	...	...	1	...
20 to 99 employees.....	4	2	...	...	...	...	...	...	1	...	...	...	...	...	...	1	...	...	...	...	...
Roos:																					
1 to 19 employees.....	3	1	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
Rush:																					
1 to 19 employees.....	2	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1	...	...

## MANUFACTURES—AREA STATISTICS

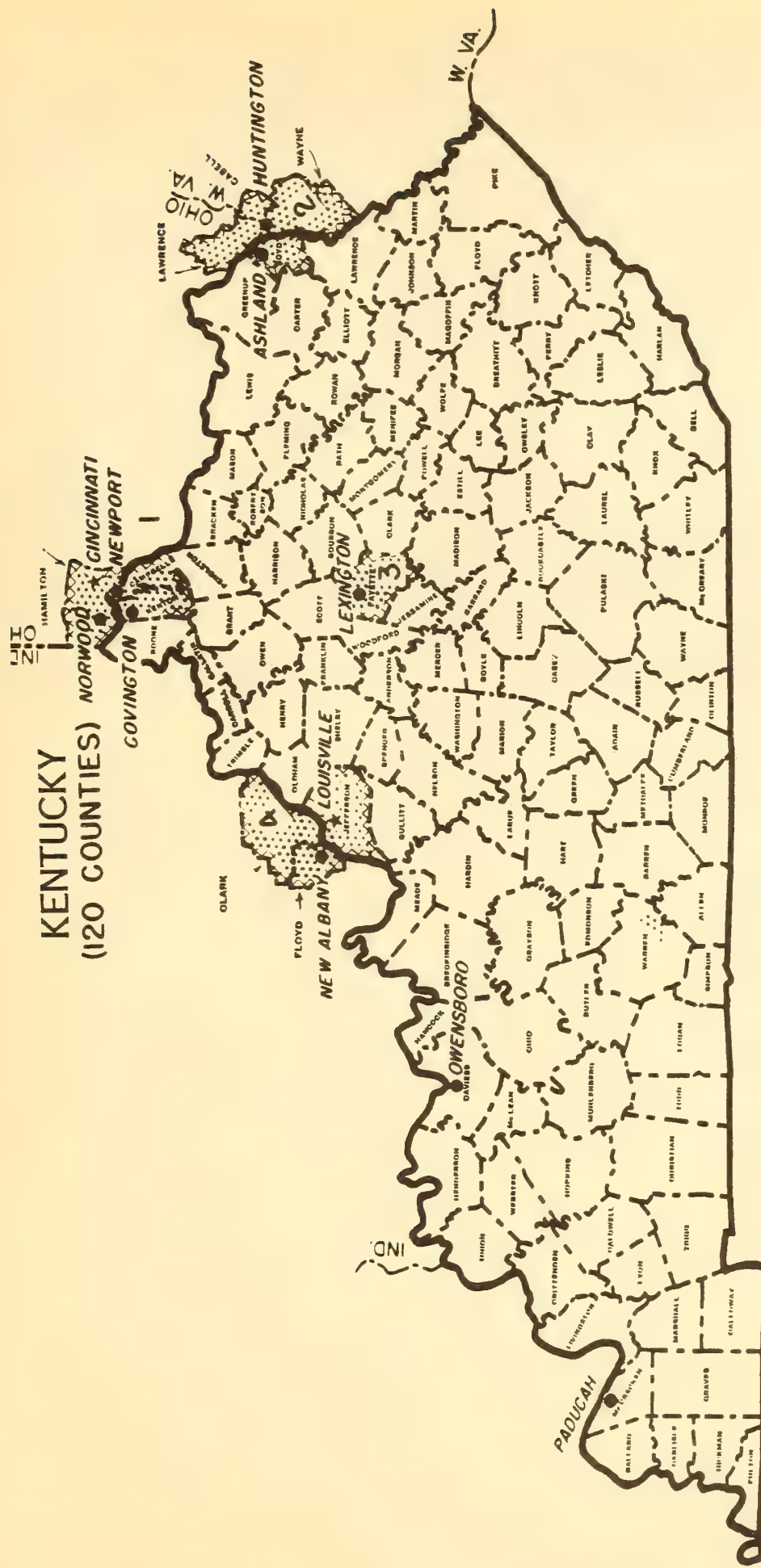
Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954—Continued  
(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Russell:																					
1 to 19 employees.....	9	4	...	...	...	...	...	...	3	...	...	...	...	1	...	...	1	...	...	...	...
Saline:																					
1 to 19 employees.....	37	15	...	...	1	3	1	...	6	...	...	1	...	1	...	2	4	...	...	1	2
20 to 99 employees.....	13	8	...	...	...	...	...	...	1	...	...	...	...	1	...	1	2	...	...	...	...
100 employees and over.....	4	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Scott:																					
1 to 19 employees.....	2	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...
Sedgwick:																					
1 to 19 employees.....	318	36	...	1	10	19	16	3	59	11	...	1	3	11	8	39	53	1	24	4	19
20 to 99 employees.....	91	23	...	...	2	2	1	1	3	5	...	...	...	3	7	15	15	1	8	...	5
100 employees and over.....	30	7	...	...	1	...	...	...	4	1	2	...	...	...	...	3	4	...	8	...	...
Seward:																					
1 to 19 employees.....	7	2	...	...	...	...	...	...	1	...	...	...	...	...	...	...	2	...	...	...	2
20 to 99 employees.....	3	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
Shawnee:																					
1 to 19 employees.....	94	31	...	...	1	3	3	...	26	5	...	...	...	4	1	9	4	1	1	1	4
20 to 99 employees.....	33	12	...	...	1	3	2	...	5	1	...	...	...	...	1	3	4	...	...	1	...
100 employees and over.....	10	2	...	...	1	...	...	...	6	...	...	1	...	...	...	...	...	...	...	...	...
Sheridan:																					
1 to 19 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Sherman:																					
1 to 19 employees.....	5	2	...	...	...	...	...	...	2	...	...	...	...	1	...	...	...	...	...	...	...
Smith:																					
1 to 19 employees.....	6	4	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
Stafford:																					
1 to 19 employees.....	5	1	...	...	...	...	...	...	3	...	...	...	...	...	...	...	1	...	...	...	...
Stanton:																					
1 to 19 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Stevens:																					
1 to 19 employees.....	2	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...
Sumner:																					
1 to 19 employees.....	22	10	...	...	...	...	...	...	7	...	...	...	...	...	...	1	2	...	2	...	...
20 to 99 employees.....	5	2	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1	...	1	...	...
Thomas:																					
1 to 19 employees.....	7	1	...	...	1	...	1	...	2	...	...	...	...	...	1	...	1	...	...	...	...
Trego:																					
1 to 19 employees.....	3	1	...	...	...	...	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...
Wabaunsee:																					
1 to 19 employees.....	3	1	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
Wallace:																					
1 to 19 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Washington:																					
1 to 19 employees.....	7	...	...	...	...	2	...	...	4	...	...	...	...	...	...	...	...	...	...	...	1
Wichita:																					
1 to 19 employees.....	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
Wilson:																					
1 to 19 employees.....	20	5	...	...	1	2	...	...	7	1	...	...	...	...	...	1	2	...	1	...	...
20 to 99 employees.....	4	...	...	...	...	...	...	...	1	1	...	...	...	2	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	...	...	...	...	...	...	1	...	...	1	...	...	...	...	...	...	...
Woodson:																					
1 to 19 employees.....	5	3	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
Wyandotte:																					
1 to 19 employees.....	127	29	...	1	4	4	1	1	22	11	3	2	2	7	1	12	13	2	1	1	10
20 to 99 employees.....	54	14	...	...	2	5	1	3	1	11	2	...	...	2	2	4	3	2	1	...	1
100 employees and over.....	34	8	...	...	1	1	1	4	1	2	1	...	...	5	1	3	3	1	2	...	...









# KENTUCKY (120 COUNTIES)

**STANDARD METROPOLITAN AREAS**

**LEGEND**

- PLACES OF 25,000 TO 100,000
- ★ PLACES OF 100,000 AND OVER
- ▨ STANDARD METROPOLITAN AREAS

- CODE**
- 1 CINCINNATI, OHIO
  - 2 HUNTINGTON, W. VA.
  - ASHLAND, KY.
  - 3 LEXINGTON
  - 4 LOUISVILLE



## MANUFACTURES—AREA STATISTICS

Table 1.—MANUFACTURING EMPLOYMENT AT OPERATING ESTABLISHMENTS AND CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARIES FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS

(This table includes data for all manufacturing employees including those located in central administrative offices and auxiliaries. Tables 2-7 in this report include data for operating establishments only. For explanation of column captions see Introduction)

State standard metropolitan areas, and year <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	(Number)	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
Kentucky:						
1954.....	151,113	553,203	146,434	529,206	4,679	23,997
1953 <sup>2</sup> .....	150,319	532,300	148,977	524,492	1,342	7,808
1952 <sup>2</sup> .....	145,213	475,770	143,599	469,382	<sup>3</sup> 1,614	<sup>3</sup> 6,388
1951 <sup>2</sup> .....	147,323	463,968	145,709	457,580	1,614	6,388
1950 <sup>2</sup> .....	138,444	391,730	136,727	385,478	1,717	6,252
1949 <sup>2</sup> .....	124,936	336,009	123,711	331,713	1,225	4,296
1954						
Standard metropolitan areas:						
Cincinnati <sup>4</sup> .....	154,519	691,713	151,317	673,358	3,202	18,355
Huntington-Ashland <sup>5</sup> .....	24,722	100,137	24,178	97,212	544	2,925
Lexington <sup>6</sup> .....	4,420	13,635	4,317	13,156	103	479
Louisville <sup>7</sup> .....	88,539	375,510	84,653	354,192	3,886	21,318

<sup>1</sup>Employment data for administrative offices and auxiliaries on a State basis are not available for the years prior to 1949. Similar data for standard metropolitan areas are available only for 1954.

<sup>2</sup>The employment figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period. The employment figures for administrative and auxiliary units were compiled chiefly from Bureau of Old-Age and Survivors Insurance records and are not strictly comparable with the figures for these units that were collected by the Bureau of the Census for the year 1954.

<sup>3</sup>The 1951 data are shown for 1952 since auxiliary and administrative unit data were not collected in 1952.

<sup>4</sup>The Cincinnati Standard Metropolitan Area consists of Campbell and Kenton Counties, Kentucky; Hamilton County, Ohio.

<sup>5</sup>The Huntington-Ashland Standard Metropolitan Area consists of Boyd County, Kentucky; Lawrence County, Ohio; Cabell and Wayne Counties, West Virginia.

<sup>6</sup>The Lexington Standard Metropolitan Area consists of Fayette County, Kentucky.

<sup>7</sup>The Louisville Standard Metropolitan Area consists of Jefferson County, Kentucky; Clark and Floyd Counties, Indiana.

Table 2.—GENERAL STATISTICS FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Year	Establish- ments, number	All employees		Production workers		Value added by manufacture (\$1,000)	
		Number	Payroll (\$1,000)	Number	Wages (\$1,000)		
KENTUCKY							
1954 <sup>1</sup> .....	2,651	146,434	529,206	119,218	383,945	1,236,260	
1953 <sup>2</sup> .....	}	148,977	524,492	124,405	397,182	1,213,002	
1952 <sup>2</sup> .....		143,599	469,382	120,462	353,645	1,078,041	
1951 <sup>2</sup> .....		145,709	457,580	122,983	349,158	1,093,896	
1950 <sup>2</sup> .....		(NA)	136,727	385,478	116,333	296,840	957,640
1949 <sup>2</sup> .....		123,711	331,713	103,847	250,085	799,482	
1947.....	2,245	129,553	304,782	110,648	236,085	743,322	
1939.....	1,582	76,504	89,004	62,481	61,592	186,485	
1937.....	1,624	77,799	84,547	68,998	66,249	181,896	
1935.....	1,621	69,775	70,481	60,809	53,058	166,386	
1933.....	1,274	(NA)	(NA)	56,085	44,292	123,240	
1931.....	1,621			56,229	54,432	145,964	
1929.....	2,246	88,583	113,623	77,825	88,644	236,080	
1927.....	1,851	(NA)	(NA)	74,912	83,859	197,132	
1925.....	1,864			76,580	84,946	198,828	
1923.....	1,975			76,724	82,648	184,684	
1921.....	2,038			58,840	62,636	129,080	
1919.....	3,767	79,261	85,845	68,726	66,261	158,498	
1914.....	4,176	73,681	43,128	64,554	31,807	115,383	
1909.....	4,776	74,010	37,491	65,400	27,888	111,975	
1904.....	3,734	65,647	30,310	59,794	24,439	73,209	
1899.....	3,648	56,091	22,639	51,735	18,454	59,102	
CINCINNATI STANDARD METROPOLITAN AREA							
1954 <sup>1</sup> .....	1,814	131,317	673,358	111,515	438,570	1,318,666	
1947.....	1,688	134,549	379,993	107,364	272,127	775,391	
1939.....	1,521	83,466	119,166	72,401	90,159	268,017	
1929.....	2,189	108,088	167,392	90,468	121,721	359,625	
1919.....	2,721	(NA)	(NA)	97,166	98,908	284,555	
LOUISVILLE STANDARD METROPOLITAN AREA							
1954 <sup>1</sup> .....	814	84,653	354,192	66,502	252,962	845,031	
1947.....	743	73,853	193,837	60,878	144,248	489,435	
1939.....	641	39,770	46,757	35,009	35,581	128,466	
1929.....	822	49,459	65,304	42,303	48,399	153,178	
1919.....	979	(NA)	(NA)	35,238	34,165	90,721	

NA Not available.

<sup>1</sup>The 1954 figures include data for establishments engaged in the processing and distribution of fluid milk, Industry Group 202, Dairy Products. These establishments were not included in the figures for the Annual Survey years 1949-1953 or earlier Census years. In addition, the 1954 Census and Annual Survey years include data for Logging camps and contractors, Industry 2411, which were not included within the scope of the 1947 Census. See footnotes to Table 4 for comparable 1954 and 1947 totals. There were also a number of changes in the definition of manufacturing industries during earlier Census years that affect the comparability of the historical series. Among the more important of these were: figures for 1935 and later years exclude data for "Railroad repair shops" and "Manufactured gas" which were included in 1899-1933 figures; the minimum size of establishment included for 1954 and 1947 was one employee, for 1939-1921 manufacturing establishments reporting value of shipments of \$5,000 or more were within scope whereas for 1919 and earlier years the cut-off was \$500. (This change in procedure has not appreciably affected the comparability of the historical data except for the figures on number of establishments.)

<sup>2</sup>The employment and payroll figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period.

## MANUFACTURES--AREA STATISTICS

Table 3.--GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
Kentucky, total.....	2,944,806	2,651	146,434	529,206	119,218	233,719	383,945	1,236,260	124,037	(1)	(1)
STANDARD METROPOLITAN AREAS											
Cincinnati area.....	904,402	1,814	151,317	673,358	111,515	227,922	438,370	1,318,668	73,023	134,549	775,391
Portion in Kentucky.....	180,450	154	9,178	38,543	7,075	14,462	25,920	82,355	6,397	9,220	47,593
Portion in Ohio.....	723,952	1,660	142,139	634,816	104,441	213,460	412,651	1,236,313	66,626	125,329	727,798
Huntington-Ashland area.....	245,795	281	24,178	97,212	19,577	37,796	72,211	209,703	29,953	22,187	120,562
Portion in Kentucky.....	49,949	52	4,993	23,527	4,142	8,112	18,425	48,327	13,271	5,021	31,329
Portion in Ohio.....	49,115	44	4,561	18,609	3,833	7,572	14,904	51,710	11,037	4,180	30,046
Portion in West Virginia..	146,731	185	14,624	55,076	11,602	22,112	38,882	109,666	5,645	12,986	59,187
Lexington area.....	100,746	104	4,317	13,156	3,282	6,524	8,389	26,472	2,151	3,568	12,855
Louisville area.....	576,900	814	84,653	354,192	66,502	135,815	252,962	845,031	90,958	73,853	489,435
Portion in Kentucky.....	484,615	699	70,530	295,687	55,277	112,593	208,502	732,398	84,668	65,968	420,334
Portion in Indiana.....	92,285	115	14,123	59,105	11,225	23,221	44,460	112,632	6,289	7,885	69,101
COUNTIES											
Adair.....	17,603	17	97	132	91	129	117	244	7	283	365
Allen.....	13,787	15	418	754	394	692	701	1,116	78	469	952
Anderson.....	8,984	12	276	856	239	499	688	2,601	144	430	2,280
Ballard.....	8,545	7	112	261	106	199	217	356	17	44	94
Barren.....	28,461	24	1,128	2,353	1,055	1,859	2,106	4,064	35	678	1,878
Bath.....	10,410	6	113	207	103	246	188	307	15	64	85
Bell.....	47,602	42	737	1,999	612	1,256	1,434	4,210	375	1,115	2,759
Boone.....	13,015	5	32	73	29	48	53	102	17	82	123
Bourbon.....	17,752	14	881	2,155	782	1,666	1,677	3,425	161	565	(D)
Boyd.....	49,949	52	4,993	23,527	4,142	8,112	18,425	48,327	13,271	5,021	31,329
Boyle.....	20,532	18	1,667	4,167	1,468	2,675	3,218	7,815	117	823	1,877
Bracken.....	8,424	9	239	470	214	384	384	721	13	363	1,025
Breathitt.....	19,964	10	75	147	65	124	125	379	31	(D)	(D)
Breckinridge.....	15,528	13	318	770	264	443	550	1,199	131	237	742
Bullitt.....	11,349	5	331	(D)	290	(D)	(D)	(D)	(D)	90	(D)
Butler.....	11,309	12	192	314	178	324	261	446	49	34	45
Caldwell.....	13,199	14	635	1,272	587	1,092	1,148	2,120	190	511	903
Calloway.....	20,147	21	914	2,296	816	1,384	1,891	4,169	88	440	983
Campbell.....	76,196	55	4,791	19,126	3,932	8,096	14,175	42,807	4,567	5,551	23,345
Carlisle.....	6,206	4	194	(D)	185	(D)	(D)	(D)	(D)	54	69
Carroll.....	8,517	8	500	1,302	453	837	1,051	1,816	329	374	1,126
Carter.....	22,559	14	1,011	2,533	937	1,456	2,170	4,971	356	1,011	3,617
Casey.....	17,446	17	88	147	81	150	134	276	10	41	95
Christian.....	42,359	41	1,434	3,583	1,175	2,433	2,673	6,620	159	1,555	5,602
Clark.....	18,898	17	668	1,592	578	1,099	1,212	4,070	635	284	767
Clay.....	23,116	13	171	303	164	236	251	414	42	87	191
Clinton.....	10,605	7	17	33	14	21	25	81	3	30	59
Crittenden.....	10,818	16	162	368	135	261	271	981	39	25	130
Cumberland.....	9,309	11	71	97	66	101	90	186	14	63	102
Daviess.....	57,241	73	7,665	25,561	6,550	12,514	19,955	44,790	3,093	5,821	42,092
Edmondson.....	9,376	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Elliott.....	7,085	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Estill.....	14,677	18	290	519	274	404	486	984	23	85	140
Fayette.....	100,746	104	4,317	13,156	3,282	6,524	8,389	26,472	2,151	3,568	12,855
Fleming.....	11,962	8	107	136	103	164	126	199	3	(D)	(D)
Floyd.....	53,500	16	62	101	53	77	87	192	28	34	86
Franklin.....	25,933	24	2,124	6,800	1,815	3,247	5,429	39,008	788	3,169	39,036
Fulton.....	13,668	16	492	1,028	429	825	841	1,504	44	513	1,244
Gallatin.....	3,969	3	60	(D)	56	(D)	(D)	(D)	(D)	(D)	(D)
Garrard.....	11,029	4	299	(D)	284	(D)	(D)	(D)	(D)	23	58
Grant.....	9,809	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	42	105
Graves.....	31,364	32	2,756	8,144	2,447	4,801	6,458	13,733	404	2,891	11,107
Grayson.....	17,063	11	241	395	217	368	305	874	24	253	439
Green.....	11,261	9	108	242	92	199	188	495	12	133	492
Greenup.....	24,887	12	317	1,153	279	548	969	2,528	89	326	1,630
Hancock.....	6,009	8	28	47	26	38	43	84	5	(D)	(D)
Hardin.....	50,312	13	347	855	280	532	597	1,379	118	352	1,670
Harlan.....	71,751	30	410	1,153	312	685	714	2,092	78	555	1,701
Harrison.....	13,736	8	471	1,422	409	783	1,107	2,261	131	155	437
Hart.....	15,321	14	135	323	114	253	224	492	130	46	105
Henderson.....	30,715	44	2,061	5,870	1,737	3,238	4,474	12,969	856	1,628	5,259
Henry.....	11,394	4	19	30	14	28	22	73	(D)	13	(D)
Hickman.....	7,778	7	57	124	42	79	79	160	26	88	240
Hopkins.....	38,815	29	583	1,286	497	908	1,003	2,016	88	357	952
Jackson.....	13,101	9	59	138	51	93	104	193	97	62	(D)

See footnotes at end of table.



## KENTUCKY

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Table 3.--GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947

(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
Jefferson.....	484,615	699	70,530	295,087	55,277	112,593	208,502	732,398	84,668	65,968	420,334
Jessamine.....	12,458	7	107	248	97	161	168	902	12	107	(D)
Johnson.....	23,846	9	86	210	65	113	148	384	45	108	323
Kenton.....	104,254	99	4,387	19,416	3,142	6,366	11,744	39,548	1,830	3,669	24,248
Knott.....	20,320	9	34	38	31	42	35	61	13	208	515
Knox.....	30,409	12	176	345	162	264	263	801	69	357	787
Larue.....	9,956	9	45	79	33	52	43	169	20	111	(D)
Laurel.....	25,797	27	370	927	278	490	521	1,557	54	112	402
Lawrence.....	14,418	10	42	68	33	54	46	137	12	48	132
Lee.....	8,739	9	33	56	30	54	48	107	7	(D)	(D)
Leslie.....	15,537	14	248	468	233	386	428	534	36	349	616
Letcher.....	39,522	12	243	715	210	424	596	1,284	100	257	1,086
Lewis.....	13,520	8	61	124	54	109	99	137	31	291	(D)
Lincoln.....	18,668	15	177	365	163	299	324	856	21	86	250
Livingston.....	7,184	4	7	9	6	5	8	2	1	15	(D)
Logan.....	22,335	23	661	1,359	590	1,044	1,118	2,308	205	450	1,468
Lyon.....	6,853	6	30	41	28	40	39	57	(D)	31	53
McCracken.....	49,137	60	5,030	18,490	3,800	7,086	12,189	35,323	772	3,455	11,736
McCreary.....	16,660	13	159	395	150	266	366	660	3	375	657
McLean.....	10,021	10	242	546	211	389	437	765	11	210	396
Madison.....	31,179	15	758	2,009	655	1,275	1,661	3,868	144	325	663
Magoffin.....	13,839	5	11	17	10	14	15	33	2	37	(D)
Marion.....	17,212	10	860	1,569	831	1,446	1,399	2,766	36	659	2,320
Marshall.....	13,387	11	1,078	4,321	892	1,714	3,360	14,160	2,051	384	(D)
Martin.....	11,677	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	43	97
Mason.....	18,486	20	1,737	5,770	1,452	3,007	4,112	14,809	571	1,864	10,543
Meade.....	9,422	9	352	(D)	230	(D)	(D)	(D)	(D)	(D)	(D)
Menifee.....	4,798	6	11	11	10	15	10	26	3	9	25
Mercer.....	14,643	11	767	2,131	666	1,260	1,631	4,750	96	445	3,617
Metcalfe.....	9,851	7	66	98	61	83	87	138	3	63	79
Monroe.....	13,770	17	224	361	209	356	323	593	45	122	190
Montgomery.....	13,025	10	504	984	462	870	893	1,768	98	507	1,373
Morgan.....	13,624	5	58	75	56	82	72	195	16	(D)	(D)
Muhlenberg.....	32,501	28	268	587	228	384	447	1,731	34	275	913
Nelson.....	19,521	27	1,338	4,609	1,089	2,308	3,273	9,499	469	918	9,407
Nicholas.....	7,532	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Ohio.....	20,840	25	144	259	125	216	220	504	127	78	160
Oldham.....	11,018	3	5	(D)	4	(D)	(D)	(D)	(D)	14	43
Owen.....	9,755	4	56	(D)	42	(D)	(D)	(D)	(D)	(D)	(D)
Owsley.....	7,324	...	...	...	...	...	...	...	...	(D)	(D)
Pendleton.....	9,610	5	136	210	126	238	185	358	11	21	47
Perry.....	46,566	15	287	661	246	450	544	859	42	329	1,067
Pike.....	81,154	29	331	764	244	374	423	1,484	75	325	1,378
Powell.....	6,812	9	58	100	56	97	95	174	16	69	154
Pulaski.....	38,452	48	813	1,683	719	1,203	1,372	3,636	261	710	1,970
Robertson.....	2,881	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Rockcastle.....	13,925	5	19	20	16	15	16	48	(D)	47	83
Rowan.....	12,708	23	523	1,188	469	786	883	1,845	80	375	1,515
Russell.....	13,717	20	109	133	103	143	123	252	5	32	76
Scott.....	15,141	12	315	711	272	548	528	1,366	60	324	732
Shelby.....	17,912	15	410	1,155	315	677	773	1,829	27	223	740
Simpson.....	11,678	12	205	312	192	254	263	482	50	283	576
Spencer.....	6,157	4	19	57	17	37	50	112	(D)	57	154
Taylor.....	14,403	18	1,108	2,418	1,040	1,915	2,198	6,580	43	165	729
Todd.....	12,890	10	344	574	328	581	523	769	(D)	240	(D)
Trigg.....	9,683	15	181	334	171	319	313	657	34	94	268
Trimble.....	5,148	...	...	...	...	...	...	...	...	(D)	(D)
Union.....	14,893	14	318	640	302	539	564	1,032	40	97	237
Warren.....	42,758	42	2,633	7,024	2,253	3,877	5,454	18,146	542	2,140	7,822
Washington.....	12,777	6	398	831	376	717	712	1,281	44	103	(D)
Wayne.....	16,475	25	301	562	246	442	412	899	73	333	761
Webster.....	15,555	9	316	583	303	608	554	794	51	80	217
Whitley.....	31,940	30	500	921	440	719	732	1,385	42	202	700
Wolfe.....	7,615	3	12	(D)	11	(D)	(D)	(D)	(D)	13	36
Woodford.....	11,212	10	776	(D)	644	(D)	(D)	(D)	(D)	482	(D)
CITIES WITH 10,000 INHABITANTS OR MORE											
Ashland.....	31,131	44	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Bowling green.....	18,347	29	2,353	6,212	2,021	3,373	4,840	15,190	482	1,922	(D)
Covington.....	64,452	82	3,762	16,591	2,634	5,350	9,698	33,643	1,290	3,310	(D)
Fort Thomas.....	10,870	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	12	39
Frankfort.....	11,916	17	1,184	3,217	1,042	1,906	2,621	5,321	321	1,281	(D)

See footnotes at end of table.

## MANUFACTURES—AREA STATISTICS

Table 3.--GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947

(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
Henderson.....	16,837	34	1,548	4,048	1,316	2,409	3,129	6,691	211	1,460	4,615
Hopkinsville.....	12,526	31	1,379	3,461	1,130	2,352	2,582	6,430	119	1,493	5,228
Lexington.....	55,534	83	3,517	10,506	2,649	5,185	6,524	22,042	2,025	3,144	10,346
Louisville.....	369,129	633	59,179	242,008	46,877	95,687	173,510	587,320	24,564	55,637	350,678
Madisonville.....	11,132	13	434	1,000	363	685	788	1,573	75	(NA)	(NA)
Middlesborough.....	14,482	16	491	1,534	397	874	1,043	3,396	323	669	1,960
Newport.....	31,044	37	3,402	13,686	2,790	5,788	10,057	36,046	4,257	4,022	16,910
Owensboro.....	33,651	58	6,688	21,508	5,764	10,927	16,919	39,512	1,555	4,796	16,220
Paducah.....	32,828	49	3,234	(D)	2,712	(D)	(D)	(D)	(D)	3,368	11,582
Richmond.....	10,268	7	64	181	41	84	98	320	15	(NA)	(NA)

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>The 1947 data are not strictly comparable with the figures shown for 1954 due to differences in coverage of loggers and fluid milk distributors. See discussion in Introduction and footnotes to Table 4.

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954								1947			
		Establish- ments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
	All industries, total <sup>1</sup> .....	2,651	854	146,434	529,206	119,218	233,719	383,945	1,236,260	( <sup>2</sup> )	124,037	( <sup>3</sup> )	( <sup>3</sup> )
20	Food and kindred products..	600	244	26,403	99,828	18,757	39,423	63,397	299,389	( <sup>2</sup> )	11,035	( <sup>3</sup> )	( <sup>3</sup> )
201	Meat products.....	74	27	2,877	10,958	2,243	4,840	7,789	18,839	( <sup>2</sup> )	945	2,078	11,112
2011	Meat packing, plants.....	52	21	2,552	10,275	1,969	4,318	7,253	15,391	( <sup>2</sup> )	809	1,706	9,098
202	Dairy products.....	140	65	4,396	15,013	2,641	6,246	7,661	36,854	( <sup>2</sup> )	2,112	( <sup>3</sup> )	( <sup>3</sup> )
2022	Natural cheese.....	9	9	277	802	222	502	547	1,621	10,132	110	( <sup>3</sup> )	( <sup>3</sup> )
2023	Concentrated milk.....	9	4	484	1,689	404	929	1,356	10,554	34,586	212	( <sup>3</sup> )	( <sup>3</sup> )
2024	Ice cream and ices.....	18	4	233	762	125	275	310	1,674	3,703	120	( <sup>3</sup> )	( <sup>3</sup> )
2026	Fluid milk.....	11	1	128	409	102	235	304	687	1,761	62	( <sup>3</sup> )	( <sup>3</sup> )
2027	Fluid milk and other products..	84	42	2,587	9,316	1,264	3,261	3,868	18,816	52,720	1,414	( <sup>3</sup> )	( <sup>3</sup> )
203	Canned and frozen foods.....	15	7	696	2,300	558	1,091	1,393	3,857	( <sup>2</sup> )	103	852	4,707
2033	Canned fruits and vegetables...	8	4	319	940	265	485	596	1,657	5,512	68	443	(D)
204	Grain mill products.....	82	20	1,647	5,389	1,204	2,823	3,724	14,077	( <sup>2</sup> )	676	1,905	12,914
2041	Flour and meal.....	36	6	787	2,721	563	1,360	1,904	9,143	34,777	329	989	(D)
2042	Prepared animal feeds.....	46	14	859	2,668	641	1,463	1,820	4,934	38,687	347	584	3,341
205	Bakery products.....	62	28	2,783	10,748	1,714	3,481	5,251	17,698	( <sup>2</sup> )	893	2,850	11,549
2051	Bread and related products....	58	26	2,580	10,159	1,545	3,207	4,892	16,547	34,605	817	(D)	(D)
2052	Biscuit and crackers.....	4	2	203	589	168	273	359	1,150	3,182	76	(D)	(D)
207	Candy and related products...	15	5	542	1,323	426	893	911	1,754	( <sup>2</sup> )	46	566	2,805
2071	Confectionery products.....	15	5	542	1,323	426	893	911	1,754	4,127	46	566	2,805
208	Beverages.....	143	80	11,921	48,702	8,847	17,762	33,459	181,115	( <sup>2</sup> )	5,679	13,218	225,447
209	Miscellaneous foods.....	69	12	1,539	5,393	1,119	2,284	3,207	25,191	( <sup>2</sup> )	578	1,535	7,453
2097	Manufactured ice.....	36	3	247	655	163	298	340	1,115	1,466	28	852	3,789
2099	Food preparations, n.e.c.....	29	6	920	3,169	687	1,420	1,918	9,155	33,450	417	(D)	(D)
21	Tobacco manufactures.....	44	37	10,401	33,236	9,699	19,678	28,948	164,223	( <sup>2</sup> )	7,044	9,152	41,784
2111	Cigarettes.....	4	4	6,223	23,030	5,861	12,186	20,574	142,672	327,536	5,533	3,823	28,024
2131	Chewing and smoking tobacco..	6	4	465	1,351	438	854	1,193	7,811	14,883	(D)	265	(D)
22	Textile mill products.....	22	17	3,690	9,294	3,390	6,389	7,933	17,310	( <sup>2</sup> )	798	3,586	12,744
225	Knitting mills.....	8	8	2,524	5,934	2,344	4,343	5,368	11,640	( <sup>2</sup> )	691	1,252	3,898
2252	Seamless hosiery mills.....	4	4	928	1,769	893	1,618	1,635	2,182	5,336	165	752	(D)
23	Apparel and related pro- ducts.....	105	75	17,013	37,089	15,906	27,624	31,333	56,661	( <sup>2</sup> )	901	12,548	41,025
231	Men's and boys' suits and coats.....	10	9	4,207	11,109	3,857	7,107	9,178	16,796	( <sup>2</sup> )	177	(D)	(D)
232	Men's and boys' furnishings..	50	44	9,300	19,058	8,773	14,764	16,275	28,599	( <sup>2</sup> )	639	5,756	16,228
2321	Men's dress shirts & nightwear.	9	7	1,673	3,967	1,543	2,707	2,963	5,601	11,017	49	1,063	3,021
2322	Men's and boys' underwear.....	5	5	2,342	5,529	2,145	3,467	4,652	8,803	21,708	(D)	(D)	(D)
2325	Men's and boys' cloth hats.....	4	3	173	495	161	324	437	832	1,459	15	75	(D)
2327	Separate trousers.....	5	4	760	1,442	727	1,329	1,305	1,803	4,486	14	911	2,123
2329	Men's & boys' clothing, n.e.c..	22	22	3,605	6,329	3,495	5,883	5,824	9,445	20,136	108	1,145	2,440
233	Women's and misses' outerwear	11	9	2,040	4,183	1,916	3,401	3,623	7,079	( <sup>2</sup> )	52	1,089	3,974
239	Fabricated textiles, n.e.c....	29	9	874	1,811	783	1,404	1,420	2,274	( <sup>2</sup> )	21	(D)	(D)
24	Lumber and wood products...	726	89	8,574	20,363	7,651	13,403	15,911	31,017	( <sup>2</sup> )	1,335	( <sup>3</sup> )	( <sup>3</sup> )
2411	Logging camps & contractors..	66	...	278	398	242	363	340	624	1,158	91	( <sup>3</sup> )	( <sup>3</sup> )
242	Lumber and basic products....	583	60	5,368	10,161	5,005	8,411	8,685	16,408	( <sup>2</sup> )	794	7,134	17,917
2421	Sawmills and planing mills.....	555	50	4,586	8,201	4,289	7,202	7,189	13,023	26,238	740	5,539	12,751
2422	Veneer mills.....	9	8	589	1,586	530	910	1,155	2,504	4,878	41	595	2,730
243	Millwork and related products	30	12	1,245	4,474	97	1,855	2,865	6,407	( <sup>2</sup> )	228	1,184	6,645
244	Wooden containers.....	11	6	775	2,749	647	1,232	2,060	3,780	( <sup>2</sup> )	88	2,291	7,914
249	Miscellaneous wood products..	36	11	906	2,581	781	1,541	1,959	3,796	( <sup>2</sup> )	132	1,156	4,843
2499	Wood products, n.e.c.....	27	7	606	1,735	527	1,081	1,307	2,507	4,904	(D)	778	2,366
25	Furniture and fixtures.....	108	47	4,997	16,390	4,169	8,363	11,599	23,235	( <sup>2</sup> )	1,036	7,158	25,292
251	Household furniture.....	72	41	4,637	15,323	3,887	7,780	10,813	21,279	( <sup>2</sup> )	970	6,736	23,701
2511	Wood furniture not upholstered.	41	23	3,376	11,158	2,882	5,817	8,068	15,304	27,737	728	4,948	16,510
2512	Upholstered household furniture	15	10	676	1,914	568	1,029	1,363	2,723	5,633	116	952	3,108
2514	Metal household furniture.....	7	5	393	1,711	280	668	1,008	2,281	6,281	78	400	(D)
2515	Mattresses and bedsprings.....	9	3	191	538	155	264	373	971	2,230	47	419	(D)
2541	Partitions and fixtures.....	14	3	187	660	151	335	485	1,232	2,696	36	219	859
26	Pulp, paper and products...	23	10	1,134	4,200	910	1,961	2,844	7,143	( <sup>2</sup> )	1,326	743	4,695
267	Paperboard containers.....	13	5	611	2,644	473	1,004	1,597	4,013	( <sup>2</sup> )	1,183	(D)	(D)
27	Printing and publishing....	317	54	7,100	30,028	5,063	10,333	20,058	46,611	( <sup>2</sup> )	2,001	6,194	28,745
2711	Newspapers.....	145	15	2,724	11,782	1,509	3,173	6,150	19,515	29,248	552	2,372	12,499
2721	Periodicals.....	15	3	186	661	20	37	67	1,194	1,997	42	201	900
2751	Commercial printing.....	94	20	2,975	13,223	2,569	5,194	10,774	19,595	27,813	1,164	2,568	11,189
2761	Lithographing.....	21	5	518	1,906	408	813	1,302	2,873	4,459	(D)	567	1,905
278	Bookbinding and related in- dustries.....	4	2	143	557	108	237	338	768	1,163	39	(D)	(D)
2782	Blankbooks and paper ruling....	4	2	143	557	108	237	338	768	1,163	39	40	(D)
279	Printing trade services.....	26	5	321	1,241	260	523	967	1,769	( <sup>2</sup> )	80	320	1,673
2792	Engraving and plate printing...	11	2	156	529	124	252	341	693	1,014	14	176	694

See footnotes at end of table.



## MANUFACTURES—AREA STATISTICS

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establish- ments, number		All employees		Production workers			Value added by manufacture	Value of shipments	Capital expendi- tures, new	All employees, number	Value added by manufacture
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
28	Chemicals and products.....	96	45	9,653	45,752	6,458	13,290	27,399	143,673	(2)	12,605	4,785	47,953
281	Inorganic chemicals.....	6	4	2,468	11,997	1,595	3,235	7,179	31,726	(2)	2,052	(D)	(D)
282	Organic chemicals.....	11	9	4,118	20,771	2,806	5,561	12,894	80,439	(2)	7,280	(D)	(D)
285	Paints and allied products...	22	16	1,585	7,485	908	2,017	3,435	21,743	(2)	674	1,593	16,724
287	Fertilizers.....	16	6	362	1,207	286	646	822	3,126	(2)	958	628	6,195
2872	Fertilizers, mixing only.....	12	4	277	944	214	493	648	2,583	10,385	937	236	1,250
288	Vegetable and animal oils....	9	4	265	886	211	504	654	2,324	(2)	213	292	4,945
289	Chemical products, n.e.c.....	23	6	790	3,216	612	1,252	2,320	3,831	(2)	1,421	250	2,151
29	Petroleum and coal products	10	6	1,484	7,406	1,135	2,235	5,338	18,648	(2)	2,454	1,280	20,215
2911	Petroleum refining.....	5	5	1,155	5,988	822	1,617	4,007	14,149	128,687	1,183	934	(D)
30	Rubber products.....	9	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	27	(D)
31	Leather and leather goods..	18	11	2,516	6,199	2,315	4,290	5,540	12,930	(2)	83	3,437	(D)
32	Stone, clay, and glass prod- ucts.....	144	43	4,589	15,419	3,889	7,437	11,860	31,237	(2)	2,417	4,203	16,302
325	Structural clay products....	26	19	1,490	4,780	1,313	2,244	3,839	7,680	(2)	622	2,061	7,469
3255	Clay refractories.....	8	7	771	2,525	693	1,016	2,115	4,319	6,762	353	1,368	5,205
327	Concrete and plaster products	73	9	697	1,950	539	1,058	1,308	3,986	7,636	337	717	2,600
3271	Concrete products.....	73	9	697	1,950	539	1,058	1,308	3,986	7,636	337	695	(D)
329	Nonmetallic mineral prod- ucts, n.e.c.....	18	4	534	2,152	397	821	1,498	4,941	(2)	235	510	2,640
33	Primary metal industries...	25	17	6,293	29,732	5,356	10,395	23,914	63,017	(2)	16,811	7,749	30,863
331	Blast furnaces and steel mills.....	5	5	5,488	26,704	4,669	9,102	21,518	58,680	(2)	16,543	(D)	(D)
332	Iron and steel foundries.....	8	6	332	1,096	299	530	890	1,254	1,976	136	462	1,705
3321	Gray-iron foundries.....	8	6	332	1,096	299	530	890	1,254	1,976	136	462	1,705
34	Fabricated metal products..	129	57	12,824	52,893	10,728	21,427	41,619	94,354	(2)	4,690	11,319	51,024
342	Cutlery, tools and hardware..	10	3	277	1,223	219	496	772	2,364	(2)	21	230	893
343	Heating and plumbing equip- ment.....	10	9	5,690	23,270	4,928	9,397	19,814	43,018	(2)	772	6,618	27,603
344	Structural metal products....	60	23	1,740	8,065	1,322	2,664	5,045	14,088	(2)	1,043	3,236	15,544
3441	Structural and ornamental work.	24	6	513	2,299	410	856	1,453	4,147	7,503	507	761	5,042
3442	Metal doors, sash, and trim....	13	5	365	1,419	278	574	923	3,327	6,408	232	(D)	(D)
3443	Boiler shop products.....	8	5	379	1,683	247	483	864	2,697	4,564	105	414	(D)
3444	Sheet-metal work.....	15	7	481	2,663	385	750	1,803	3,915	6,837	198	1,824	7,592
346	Metal stamping and coating...	22	8	2,518	9,954	2,042	4,105	7,601	13,410	(2)	1,282	576	2,408
3463	Metal stamping.....	9	6	1,973	8,036	1,567	3,215	6,116	10,143	25,383	(D)	337	1,535
3471	Lighting fixtures.....	7	2	284	686	263	529	587	1,856	3,721	21	(D)	(D)
35	Machinery, except electri- cal.....	127	47	13,852	61,629	10,469	21,048	41,188	120,612	(2)	54,340	10,175	40,461
352	Tractors and farm machinery..	11	4	3,361	15,194	2,498	4,734	10,331	20,329	(2)	1,823	(D)	(D)
354	Metalworking machinery.....	20	6	523	2,532	410	863	1,576	4,522	(2)	425	438	1,586
3544	Special dies and tools.....	15	2	171	671	149	294	518	1,019	1,612	90	168	(D)
3545	Metalworking mach. attachments.	4	3	197	874	151	319	443	1,827	2,789	302		
355	Special-industry machinery, n.e.c.....	19	8	763	2,938	589	1,168	2,122	7,470	(2)	187	490	2,409
3551	Food-products machinery.....	7	3	313	1,039	233	453	827	3,429	5,049	53	141	501
3559	Special-industry mach., n.e.c..	6	2	107	444	85	167	295	1,501	2,169	(D)	158	863
356	General industrial machinery.	20	12	2,167	9,358	1,744	3,692	6,743	18,651	(2)	637	2,102	12,392
3562	Elevators and escalators.....	3	3	152	673	91	190	369	945	1,397	14	217	(D)
358	Service and household ma- chines.....	8	8	3,680	17,350	2,603	5,285	10,639	37,868	(2)	(D)	859	4,041
36	Electrical machinery.....	34	21	8,860	30,946	7,427	14,087	22,786	54,704	(2)	2,719	4,589	16,010
361	Electrical industrial ap- paratus.....	6	4	931	4,261	726	1,418	2,677	9,010	(2)	480	(D)	(D)
3651	Electric lamps (bulbs).....	4	4	1,153	3,355	1,033	1,968	2,786	7,942	12,251	723	(D)	(D)
366	Communication equipment.....	13	9	4,871	14,765	4,314	8,038	12,129	20,094	(2)	1,123	(D)	(D)
37	Transportation equipment...	19	12	3,171	14,736	2,630	5,761	11,325	30,324	(2)	394	3,209	(D)
371	Motor vehicles and equipment.	11	9	2,524	12,499	2,076	4,564	9,646	27,406	(2)	317	(D)	(D)
38	Instruments and related products.....	11	3	1,084	4,094	962	1,905	3,383	4,918	(2)	271	1,279	(D)
384	Medical equipment and sup- plies.....	7	1	114	346	88	165	200	481	(2)	49	(D)	(D)

See footnotes at end of table.

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establish- ments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
39	Miscellaneous manufactures <sup>4</sup>	84	18	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1,720	5,853
3971	Plastics products, n.e.c.....	10	4	448	1 383	376	682	1,028	2,993	5,635	(D)	141	370
398 399	Miscellaneous manufactures <sup>4</sup> ..	57	11	1,563	5,981	1,284	2,686	4,663	9,340	( <sup>2</sup> )	(D)	722	2,304
3988	Morticians' goods.....	10	2	152	423	116	229	258	744	1,570	(D)	216	695
3993	Signs and advertising displays.	31	5	396	1,247	300	664	839	1,844	2,992	65	370	1,316

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industries (4-digit) and industry groups (3-digit) are not shown. Industries and industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "all industries" line.

<sup>2</sup>The total value of shipments figures for industry groups and a few individual industries have not been published due to the extensive and unmeasurable duplication arising from shipments from one establishment to another in the same industry classification. (See Introduction.)

<sup>3</sup>Comparable data are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude establishments in S.I.C. Industry 2411, Logging Camps and Contractors, which are included in the scope of the 1954 Census; the 1947 Census also excludes plants processing and distributing fluid milk which in 1954 are classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	All industries except subgroups 202 and 2411, total.....	141,760	1,198,782	127,922	730,525
20	Food and kindred products except subgroup 202, Dairy products.....	22,007	262,535	23,004	276,017
24	Lumber and wood products except Industry 2411, Logging camps and contractors.....	8,296	30,393	11,765	37,319

<sup>4</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories."  
(Establishments which are Government-owned and operated are not included.)

## MANUFACTURES—AREA STATISTICS

Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947  
(For explanation of column captions see Introduction)

Code	Industry group	Establish- ments, number	1954						1947		
			All employees		Production workers			Value added by manufacture	Capital expendi- tures, new	All employees, number	Value added by manufacture
			Number	Payroll (\$1,000)	Number	Man-hours (11,000)	Wages (\$1,000)				
"All manufacturing" totals for the Cincinnati Standard Metropolitan Area (which includes Campbell and Kenton Counties in Kentucky) appear in Table 3. Industry group statistics for this area are shown in the 1954 Census of Manufactures report for the State of Ohio											
LOUISVILLE STANDARD METROPOLITAN AREA (Consists of Jefferson County, Kentucky; Clark and Floyd Counties, Indiana)											
	All industries, total <sup>1</sup> ...	814	84,653	354,192	66,502	135,815	252,962	845,031	90,958	273,853	2,489,435
20	Food and kindred products...	162	13,984	56,361	9,986	20,815	36,153	157,264	5,045	(3)	(3)
201	Meat products.....	17	1,719	7,349	1,374	2,905	5,441	13,029	540	1,433	7,255
202	Dairy products.....	36	1,998	7,555	1,088	2,376	3,291	14,352	714	(3)	(3)
203	Canned and frozen food.....	11	465	1,623	355	726	951	2,667	43	(D)	(D)
204	Grain mill products.....	7	726	2,703	537	1,286	1,982	8,242	292	814	5,867
205	Bakery products.....	30	1,840	7,138	1,194	2,396	3,706	11,652	526	1,811	7,692
207	Candy and related products....	6	420	1,081	323	702	724	1,377	27	(D)	(D)
208	Beverages.....	27	5,575	24,359	4,198	8,513	17,269	83,125	2,419	6,242	113,565
209	Miscellaneous foods.....	28	1,239	4,551	913	1,907	2,785	22,817	482	933	4,975
21	Tobacco manufactures.....	13	7,885	27,620	7,380	14,999	24,322	154,724	5,740	5,935	33,465
211	Cigarettes.....	4	6,223	23,030	5,861	12,186	20,574	142,672	5,533	3,823	28,024
214	Tobacco stemming and redrying...	4	710	2,091	613	1,145	1,507	3,410	176	(D)	(D)
22	Textile mill products.....	9	742	2,249	653	1,286	1,680	3,992	92	1,324	5,168
23	Apparel & related products.	22	2,341	6,291	2,067	3,869	4,852	8,207	104	2,904	8,758
232	Men's & boys' furnishings.....	9	1,411	3,723	1,254	2,274	2,665	5,385	66	1,616	4,906
24	Lumber and wood products....	70	4,932	17,555	3,927	7,703	11,711	24,866	440	6,233	28,162
242	Lumber and basic products.....	24	990	3,642	849	1,805	2,591	6,058	118	1,062	4,655
243	Millwork and related products..	21	2,611	9,435	1,958	3,731	5,756	13,356	193	2,428	12,715
244	Wooden containers.....	8	816	2,764	695	1,338	2,140	3,517	67	1,975	6,955
249	Miscellaneous wood products....	13	505	1,699	416	812	1,210	1,901	43	768	3,837
25	Furniture and fixtures.....	59	3,300	11,656	2,745	5,633	8,299	16,592	443	4,936	16,968
251	Household furniture.....	37	3,074	10,941	2,564	5,247	7,760	15,308	429	4,748	16,249
254	Partitions and fixtures.....	9	124	437	104	245	333	779	8	(D)	(D)
26	Pulp, paper and products....	16	(D)	(D)	(D)	(D)	(D)	(D)	(D)	419	2,859
27	Printing and publishing.....	121	5,008	23,506	3,665	7,473	15,892	34,479	1,413	4,505	21,004
272	Periodicals.....	9	120	412	15	29	54	785	13	(D)	(D)
275	Commercial printing.....	52	2,625	12,199	2,271	4,598	9,924	17,853	1,050	2,304	10,085
276	Lithographing.....	13	374	1,525	293	601	1,026	2,100	43	493	1,639
279	Printing trade service.....	21	297	1,146	242	485	898	1,580	41	313	1,628
28	Chemicals and products.....	67	11,702	56,295	8,378	17,457	37,426	164,104	14,401	6,897	92,819
282	Organic chemicals.....	7	6,956	35,485	5,184	10,759	24,857	90,538	6,839	(D)	(D)
285	Paints and allied products....	22	1,513	7,129	872	1,941	3,300	21,170	660	(D)	(D)
287	Fertilizers.....	9	500	1,772	407	887	1,325	4,396	1,861	427	2,542
289	Chemical products, n.e.c.....	14	709	2,985	546	1,141	2,173	3,072	1,203	280	2,492
29	Petroleum and coal products.	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	246	5,601
30	Rubber products.....	3	28	(D)	16	(D)	(D)	(D)	(D)	(D)	(D)
31	Leather and leather goods...	5	155	425	126	268	334	566	3	307	1,310
32	Stone, clay, & glass prod...	40	2,085	8,045	1,693	3,477	6,190	20,484	2,025	1,907	9,556
325	Structural clay products.....	4	138	409	119	203	310	535	8	155	597
327	Concrete and plaster products..	18	268	959	223	459	681	1,987	100	247	978
33	Primary metal industries....	15	549	2,001	468	942	1,617	2,788	80	2,429	(D)
34	Fabricated metal products...	76	10,651	45,211	8,874	17,786	35,850	79,356	3,686	9,604	42,206
344	Structural metal products.....	34	1,077	5,208	792	1,557	3,108	8,020	376	2,385	10,221
346	Metal stamping and coating....	12	2,093	8,581	1,669	3,378	6,514	11,174	1,168	486	2,186
348	Fabricated wire products.....	4	318	1,077	285	591	938	2,070	56	(D)	(D)
35	Machinery, exc. electrical..	75	11,710	53,097	8,753	17,448	35,417	102,296	53,619	9,007	34,825
352	Tractors and farm machinery....	4	3,278	14,914	2,443	4,624	10,158	19,831	1,816	(D)	(D)
354	Metalworking machinery.....	12	122	567	102	218	405	877	90	213	601
355	Special-industry mach., n.e.c..	14	598	2,399	458	899	1,740	6,594	185	305	2,254
356	General industrial machinery...	13	1,512	6,131	1,258	2,606	4,719	13,540	418	1,763	10,162
358	Service & household machines...	8	3,648	17,202	2,576	5,219	10,551	37,555	(D)	(D)	(D)
359	Miscellaneous mach. parts.....	19	2,446	11,420	1,834	3,725	7,535	23,228	1,247	(D)	(D)
36	Electrical machinery.....	15	1,693	7,213	1,345	2,654	4,902	14,526	482	232	962
37	Transportation equipment....	8	2,417	(D)	1,955	(D)	(D)	(D)	(D)	(D)	(D)

See footnotes at end of table.



Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947—Con.

Code	Industry group	Establishments, number	1954							1947	
			All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours ((1,000)	Wages (\$1,000)				
38	Instruments & related prod.	6	(L)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
39	Miscellaneous manufactures <sup>4</sup>	30	4,457	(D)	3,689	(D)	(D)	(D)	(D)	932	3,840

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industry groups (3-digit) are not shown. Industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "All industries" line.

<sup>2</sup>The 1954 and 1947 "All industries" totals are not strictly comparable because of differences in scope between the two years in Major Group 20 (see footnote 3).

<sup>3</sup>Comparable data for Major Group 20 are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude plants processing and distributing fluid milk which in 1954 were classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Industry	1954		1947	
	All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
20 Food and kindred products except Subgroup 202, Dairy Products, Louisville Standard Metropolitan Area.	11,896	142,912	12,378	145,743

<sup>4</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)

Table 6.—GENERAL STATISTICS FOR PRINCIPAL INDUSTRIAL COUNTIES, BY MAJOR INDUSTRY GROUP: 1954 AND 1947

(Principal industrial counties include all counties with 20,000 or more manufacturing employees. For explanation of column captions see Introduction)

Code	Major industry group	1954								1947	
		Establishments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendit- ures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
		JEFFERSON COUNTY									
	All industries, total <sup>1</sup> .....	699	70,530	295,087	55,277	112,593	208,502	732,398	84,668	265,968	2420,334
20	Food and kindred products.....	139	13,608	55,095	9,742	20,260	35,458	154,740	4,921	12,728	150,004
21	Tobacco manufactures.....	13	7,885	27,620	7,380	14,999	24,322	154,724	5,740	5,935	33,465
24	Lumber and wood products.....	48	2,777	9,929	2,262	4,419	6,999	13,826	278	4,357	20,053
25	Furniture and fixtures.....	49	2,571	9,429	2,094	4,349	6,385	13,757	400	4,623	16,038
27	Printing and publishing.....	109	4,894	23,126	3,601	7,363	15,659	33,892	1,406	4,408	20,634
28	Chemicals and products.....	55	6,184	29,655	4,144	8,509	17,671	100,548	9,565	4,437	(D)
33	Primary metal industries.....	10	454	1,727	380	781	1,371	2,419	75	2,227	(D)
34	Fabricated metal products.....	67	10,401	44,449	8,680	17,418	35,327	78,127	3,648	9,567	42,036
35	Machinery, except electrical...	70	11,670	52,944	8,722	17,383	35,313	102,063	53,606	8,874	34,307
39	Miscellaneous manufactures <sup>3</sup> ....	29	1,605	6,679	1,309	2,781	5,137	10,159	1,542	(D)	(D)

D Withheld to avoid disclosing data for individual companies.

<sup>1</sup>In order to avoid disclosing data for individual companies, the statistics for some industry groups are not shown. Industry groups reporting less than 100 employees are also omitted. They are included, however, in the "All industries" line.

<sup>2</sup>The 1954 and 1947 "All industries" totals are not strictly comparable because of differences in coverage of loggers and fluid milk distributors. See discussion in Introduction and footnote to Table 4 for comparable figures at the State level.

<sup>3</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)

Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954

20 Food and kindred products	26 Pulp, paper and products	32 Stone, clay, and glass products.	38 Instruments and related products
21 Tobacco manufactures	27 Printing and publishing	33 Primary metal industries	39 Miscellaneous manufactures (Includes Group 19 Ordnance and accessories)
22 Textile mill products	28 Chemicals and products	34 Fabricated metal products	
23 Apparel and related products	29 Petroleum and coal products	35 Machinery, except electrical	
24 Lumber and wood products	30 Rubber products	36 Electrical machinery	
25 Furniture and fixtures	31 Leather and leather goods	37 Transportation equipment	

(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establish- ments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Kentucky, total.....	2,651	600	44	22	105	726	108	23	317	96	10	9	18	144	25	129	127	34	19	11	84
1 to 4 employees.....	990	159	3	2	13	413	32	6	148	21	4	4	3	51	2	33	37	8	5	4	42
5 to 9 employees.....	431	100	2	...	9	128	15	3	71	14	...	2	2	25	4	21	19	2	...	2	12
10 to 19 employees.....	375	97	2	3	8	96	14	4	44	16	...	2	2	25	2	17	24	3	2	2	12
20 to 49 employees.....	384	135	9	5	11	57	24	5	35	15	1	...	3	21	6	20	21	6	2	1	7
50 to 99 employees.....	170	47	9	2	19	17	10	1	11	13	...	...	...	8	5	14	5	4	1	1	3
100 to 249 employees.....	174	36	12	4	24	14	10	3	4	8	2	1	5	10	2	14	10	4	6	...	5
250 to 499 employees.....	79	20	2	4	14	1	2	1	2	6	2	...	2	4	1	7	2	5	2	...	2
500 to 999 employees.....	27	6	1	2	5	...	1	...	...	1	1	...	1	...	1	...	6	...	...	1	1
1,000 to 2,499 employees.....	18	...	4	...	2	...	...	...	2	2	...	...	...	...	1	3	2	1	1	...	...
2,500 employees and over.....	3	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	1	...	...	...
Adair:																					
1 to 19 employees.....	17	...	...	...	...	16	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Allen:																					
1 to 19 employees.....	13	...	...	...	...	10	...	...	1	...	...	...	...	...	...	...	1	...	...	...	1
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Anderson:																					
1 to 19 employees.....	6	4	...	...	...	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...	...
20 to 99 employees.....	6	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Ballard:																					
1 to 19 employees.....	6	2	...	...	...	3	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Barren:																					
1 to 19 employees.....	17	6	...	...	...	7	1	...	2	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	4	3	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	3	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Bath:																					
1 to 19 employees.....	4	...	...	...	...	3	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Bell:																					
1 to 19 employees.....	31	4	...	...	2	19	1	...	3	...	...	...	...	1	...	...	...	...	...	...	1
20 to 99 employees.....	10	3	...	1	...	2	2	...	1	...	...	...	...	...	...	...	1	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
Boone:																					
1 to 19 employees.....	5	1	...	...	1	...	...	...	2	...	...	...	...	1	...	...	...	...	...	...	...
Bourbon:																					
1 to 19 employees.....	7	3	...	...	...	...	...	...	3	...	...	...	...	...	...	...	1	...	...	...	...
20 to 99 employees.....	4	1	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
100 employees and over.....	3	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
Boyd:																					
1 to 19 employees.....	37	13	...	...	1	6	1	...	4	...	...	1	1	1	1	3	1	1	...	...	3
20 to 99 employees.....	8	3	...	...	...	1	...	...	1	...	...	...	...	2	...	1	...	...	...	...	...
100 employees and over.....	7	...	...	...	1	...	...	...	...	...	2	...	1	1	2	...	...	...	...	...	...
Boyle:																					
1 to 19 employees.....	7	3	...	...	1	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	1
20 to 99 employees.....	6	3	...	...	...	1	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	5	...	1	...	1	...	1	...	...	...	...	...	1	1	...	...	...	...	...	...	...
Bracken:																					
1 to 19 employees.....	7	2	...	...	...	...	...	...	3	...	...	...	...	1	...	...	1	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
Breathitt:																					
1 to 19 employees.....	9	1	...	...	...	7	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Breckinridge:																					
1 to 19 employees.....	8	2	...	...	...	3	...	...	2	...	...	...	...	...	...	1	...	...	...	...	...
20 to 99 employees.....	4	1	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Bullitt:																					
1 to 19 employees.....	3	...	...	...	...	2	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Butler:																					
1 to 19 employees.....	11	3	...	...	...	7	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Caldwell:																					
1 to 19 employees.....	11	1	...	...	...	6	...	...	2	...	1	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	2	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Calloway:																					
1 to 19 employees.....	16	3	...	...	...	2	...	...	2	1	...	...	...	7	...	...	1	...	...	...	...
20 to 99 employees.....	2	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
100 employees and over.....	3	...	...	1	1	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...
Campbell:																					
1 to 19 employees.....	37	8	...	1	2	1	1	...	5	...	...	...	...	7	1	4	3	1	...	...	3
20 to 99 employees.....	13	3	...	...	1	...	1	...	1	1	...	...	...	...	...	3	2	...	...	...	1
100 employees and over.....	5	1	...	...	1	...	1	...	...	...	...	...	...	...	1	...	...	...	...	1	...
Carlisle:																					
1 to 19 employees.....	3	1	...	...	...	1	...	...	1	...	...	...	...	...	...	1	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...

(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Carroll:																					
1 to 19 employees.....	6	2	...	...	...	...	...	...	1	...	...	...	...	2	...	1	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Carter:																					
1 to 19 employees.....	7	1	...	...	...	5	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	4	...	...	...	...	...	...	...	1	...	...	...	...	3	...	...	...	...	...	...	...
100 employees and over.....	3	...	...	...	1	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...
Casey:																					
1 to 19 employees.....	17	1	...	...	1	14	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Christian:																					
1 to 19 employees.....	25	7	...	...	2	6	...	...	2	1	...	1	...	3	...	...	...	...	...	...	...
20 to 99 employees.....	13	10	1	...	1	...	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	3	...	...	...	1	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
Clark:																					
1 to 19 employees.....	9	3	...	...	1	1	...	...	1	1	...	...	...	...	...	...	2	...	...	...	...
20 to 99 employees.....	6	2	...	...	2	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
Clay:																					
1 to 19 employees.....	8	...	...	...	...	7	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	5	...	...	...	...	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Clinton:																					
1 to 19 employees.....	7	1	...	...	...	4	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
Crittenden:																					
1 to 19 employees.....	15	2	...	...	...	5	...	...	3	...	...	...	...	4	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Cumberland:																					
1 to 19 employees.....	11	...	...	...	...	11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Daviess:																					
1 to 19 employees.....	44	8	1	...	...	11	1	...	6	1	...	...	1	4	...	5	3	...	1	...	...
20 to 99 employees.....	18	6	1	...	...	1	2	...	1	1	...	...	...	1	2	1	2	...	...	...	...
100 employees and over.....	11	4	...	...	...	1	2	...	...	...	...	...	...	1	1	...	...	2	...	...	...
Edmonson:																					
1 to 19 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Elliott:																					
1 to 19 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Estill:																					
1 to 19 employees.....	16	2	...	...	...	12	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Fayette:																					
1 to 19 employees.....	58	11	...	...	2	1	...	...	16	3	...	...	...	4	...	6	3	1	...	3	...
20 to 99 employees.....	33	19	2	...	...	1	...	...	5	...	...	...	...	2	...	1	2	1	...	...	...
100 employees and over.....	13	1	6	...	...	...	...	...	1	...	...	...	...	1	...	...	...	1	2	...	...
Fleming:																					
1 to 19 employees.....	7	1	...	...	...	3	...	...	2	...	...	...	...	...	...	1	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Floyd:																					
1 to 19 employees.....	16	2	...	...	...	10	...	...	2	...	...	...	...	1	...	...	...	...	...	...	...
Franklin:																					
1 to 19 employees.....	15	3	...	1	...	...	2	...	3	...	1	...	1	1	...	...	1	...	1	...	...
20 to 99 employees.....	5	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
100 employees and over.....	4	2	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
Fulton:																					
1 to 19 employees.....	14	5	...	...	...	4	...	...	4	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Gallatin:																					
1 to 19 employees.....	2	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Garrard:																					
1 to 19 employees.....	3	1	...	...	...	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Grant:																					
1 to 19 employees.....	2	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Graves:																					
1 to 19 employees.....	22	11	...	...	...	1	...	...	1	1	...	...	...	5	...	1	...	...	...	...	...
20 to 99 employees.....	7	4	...	...	1	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	3	...	...	...	2	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Grayson:																					
1 to 19 employees.....	9	3	...	...	...	5	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Green:																					
1 to 19 employees.....	7	1	...	...	...	5	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	2	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Greenup:																					
1 to 19 employees.....	9	1	...	...	...	3	1	...	1	2	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	...	...	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...
Hancock:																					
1 to 19 employees.....	8	...	...	...	...	6	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
Hardin:																					
1 to 19 employees.....	7	1	...	...	...	1	...	...	4	1	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	5	3	...	...	...	...	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...





## 116-15

(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establish- ments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
McLean:																					
1 to 19 employees.....	8	1	...	...	...	5	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Madison:																					
1 to 19 employees.....	12	7	...	...	1	...	...	...	1	...	...	...	...	3	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...	1	...	...	...
100 employees and over.....	2	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	1	...	...	...
Magoffin:																					
1 to 19 employees.....	5	...	...	...	...	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Marion:																					
1 to 19 employees.....	7	2	...	...	...	1	...	...	2	...	...	1	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Marshall:																					
1 to 19 employees.....	5	1	...	...	...	...	...	...	2	1	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	3	...	...	...	1	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	3	...	...	...	...	...	...	...	...	2	...	...	...	...	1	...	...	...	...	...	...
Martin:																					
1 to 19 employees.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Mason:																					
1 to 19 employees.....	9	3	...	...	...	...	...	...	2	1	...	...	...	2	...	...	1	...	...	...	...
20 to 99 employees.....	5	1	3	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	6	1	...	1	...	...	...	...	...	...	...	...	1	...	...	1	1	...	1	...	...
Mead:																					
1 to 19 employees.....	8	1	...	...	1	5	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
Menifee:																					
1 to 19 employees.....	6	...	...	...	...	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Mercer:																					
1 to 19 employees.....	8	3	...	...	...	2	...	...	1	...	...	...	...	1	1	...	...	...	...	...	...
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Metcalf:																					
1 to 19 employees.....	6	1	...	...	...	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...
Monroe:																					
1 to 19 employees.....	13	3	...	...	...	8	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	4	1	...	...	1	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Montgomery:																					
1 to 19 employees.....	6	4	...	...	...	...	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	3	1	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Morgan:																					
1 to 19 employees.....	4	...	...	...	...	3	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Muhlenberg:																					
1 to 19 employees.....	25	2	...	...	...	20	...	...	2	...	...	...	...	...	...	...	1	...	...	...	...
20 to 99 employees.....	3	1	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Nelson:																					
1 to 19 employees.....	15	7	...	...	...	5	...	...	1	...	...	...	...	1	...	...	1	...	...	...	...
20 to 99 employees.....	6	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	6	5	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Nicholas:																					
1 to 19 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Ohio:																					
1 to 19 employees.....	24	5	...	...	...	15	...	...	3	...	...	...	...	...	...	1	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
Oldham:																					
1 to 19 employees.....	3	1	...	...	...	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Owen:																					
1 to 19 employees.....	3	1	...	...	...	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Pendleton:																					
1 to 19 employees.....	4	1	...	...	...	...	...	...	1	1	...	...	...	...	...	...	1	...	...	...	...
100 employees.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Perry:																					
1 to 19 employees.....	11	1	...	...	...	8	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1
20 to 99 employees.....	3	1	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Pike:																					
1 to 19 employees.....	23	1	...	...	...	22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	6	3	...	...	...	2	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Powell:																					
1 to 19 employees.....	8	1	...	...	...	5	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Pulaski:																					
1 to 19 employees.....	42	6	...	...	...	28	2	...	1	1	...	...	...	2	...	...	1	...	...	...	1
20 to 99 employees.....	5	1	...	...	...	...	1	...	1	...	1	...	...	...	...	...	1	...	...	...	...
100 employees and over.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Robertson:																					
1 to 19 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...

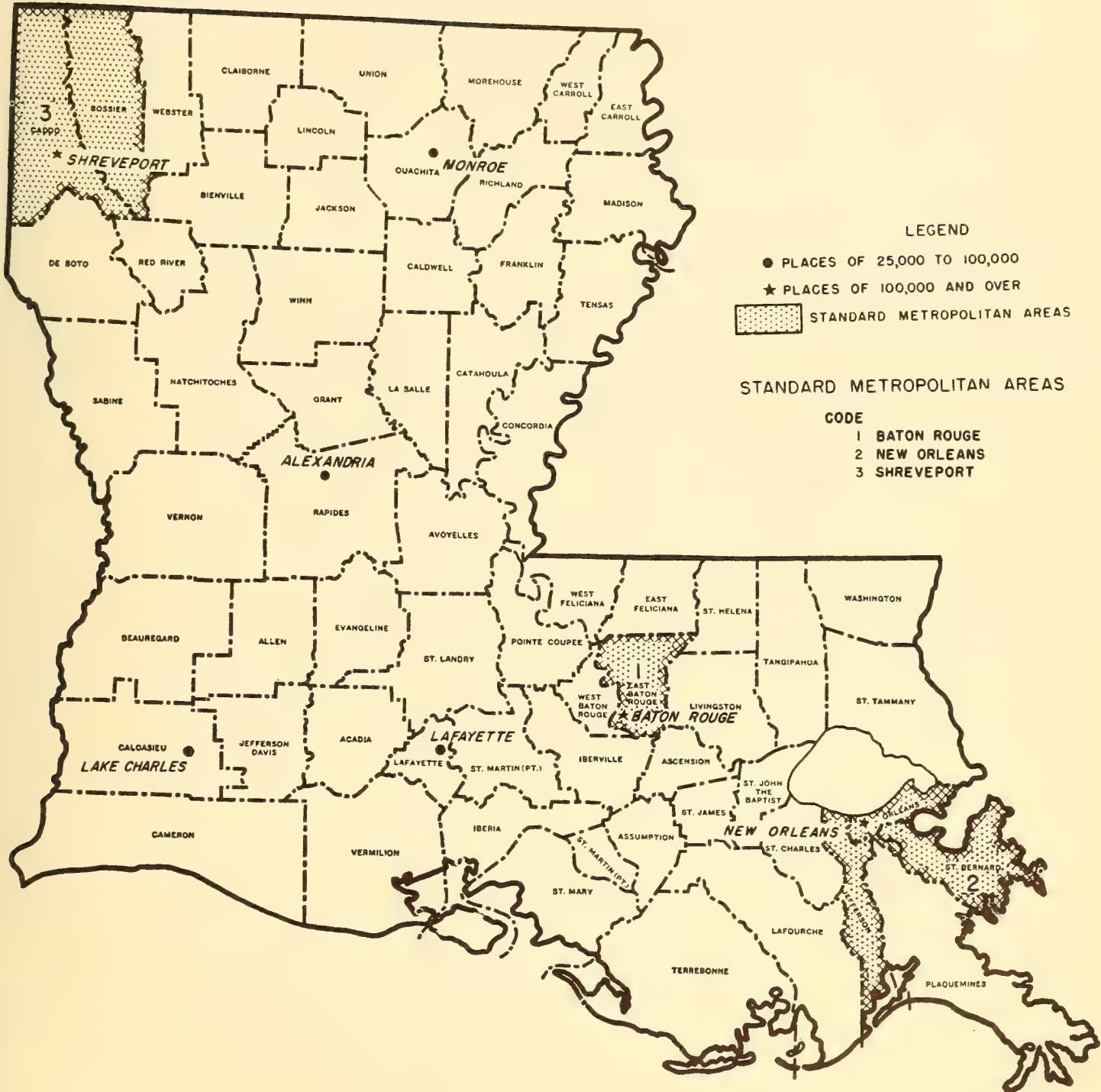
## MANUFACTURES—AREA STATISTICS

Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954—Continued  
(Counties and size classes in which no manufacturing establishments were reported are omitted)

[illegible]



# LOUISIANA (64 PARISHES)



## MANUFACTURES—AREA STATISTICS

Table 1.—MANUFACTURING EMPLOYMENT AT OPERATING ESTABLISHMENTS AND CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARIES FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS

(This table includes data for all manufacturing employees including those located in central administrative offices and auxiliaries. Tables 2-7 in this report include data for operating establishments only. For explanation of column captions see Introduction)

State, standard metropolitan areas, and year <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	(Number)	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
Louisiana:						
1954.....	146,330	538,969	144,757	531,639	1,573	7,330
1953 <sup>2</sup> .....	152,549	533,448	150,808	526,168	1,741	7,280
1952 <sup>2</sup> .....	135,446	459,114	134,147	454,370	1,299	4,744
1951 <sup>2</sup> .....	135,354	415,921	134,055	411,177	1,299	4,744
1950 <sup>2</sup> .....	126,035	358,251	123,952	350,751	2,083	7,500
1949.....	119,719	316,725	117,246	311,369	2,473	5,356
1954						
Standard metropolitan areas:						
Baton Rouge <sup>4</sup> .....	18,909	98,547	18,882	98,399	27	148
New Orleans <sup>5</sup> .....	53,777	196,082	53,313	193,617	464	2,465
Shreveport <sup>6</sup> .....	8,786	32,168	8,037	28,592	749	3,576

<sup>1</sup>Employment data for administrative offices and auxiliaries on a State basis are not available for the years prior to 1949. Similar data for standard metropolitan areas are available only for 1954.<sup>2</sup>The employment figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period. The employment figures for administrative and auxiliary units were compiled chiefly from Bureau of Old-Age and Survivors Insurance records and are not strictly comparable with the figures for these units that were collected by the Bureau of the Census for the year 1954.<sup>3</sup>The 1951 data are shown for 1952 since auxiliary and administrative unit data were not collected in 1952.<sup>4</sup>The Baton Rouge Standard Metropolitan Area consists of East Baton Rouge Parish, Louisiana.<sup>5</sup>The New Orleans Standard Metropolitan Area consists of Jefferson, Orleans and St. Bernard Parishes, Louisiana.<sup>6</sup>The Shreveport Standard Metropolitan Area consists of Bossier and Caddo Parishes, Louisiana.

Table 2.—GENERAL STATISTICS FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Year	Establish- ments, number	All employees		Production workers		Value added by manufacture (\$1,000)	
		Number	Payroll (\$1,000)	Number	Wages (\$1,000)		
		LOUISIANA					
1954 <sup>1</sup> .....	3,020	144,757	531,639	114,378	375,730	1,181,649	
1953 <sup>2</sup> .....	(NA)	150,808	526,168	121,987	386,663	1,179,569	
1952 <sup>2</sup> .....	(NA)	134,147	454,370	109,773	333,540	1,090,597	
1951 <sup>2</sup> .....	(NA)	134,055	411,177	112,083	304,155	1,073,822	
1950 <sup>2</sup> .....	(NA)	123,952	350,751	100,501	256,447	915,976	
1949 <sup>2</sup> .....	(NA)	117,246	311,369	95,822	228,674	713,057	
1947.....	2,388	132,463	309,869	111,552	229,671	694,062	
1939.....	1,779	87,770	85,273	70,453	54,454	198,527	
1937.....	1,684	85,702	79,122	76,057	60,203	199,856	
1935.....	1,611	70,023	60,641	61,664	44,982	142,943	
1933.....	1,314	(NA)	(NA)	53,052	35,643	128,125	
1931.....	1,609	(NA)	(NA)	57,090	47,949	131,113	
1929.....	1,989	97,551	107,960	87,345	83,867	246,497	
1927.....	1,624	(NA)	(NA)	82,415	79,673	210,367	
1925.....	1,742	(NA)	(NA)	88,058	79,763	244,624	
1923.....	1,781	(NA)	(NA)	94,719	83,031	217,268	
1921.....	1,851	(NA)	(NA)	85,170	76,761	167,510	
1919.....	2,489	109,853	116,718	97,742	93,858	243,886	
1914.....	2,206	86,145	50,696	77,648	39,531	97,402	
1909.....	2,516	84,268	42,394	76,165	33,386	89,084	
1904.....	2,091	61,836	31,360	55,858	25,316	69,344	
1899.....	1,826	44,454	17,659	40,878	14,725	35,994	
		NEW ORLEANS STANDARD METROPOLITAN AREA					
1954 <sup>1</sup> .....	856	53,312	193,617	41,423	135,236	374,873	
1947.....	724	45,363	105,210	37,932	78,201	222,995	
1939.....	688	28,679	27,158	25,509	19,931	80,810	
1929.....	851	31,558	35,893	27,065	24,839	94,120	
1919.....	923	(NA)	(NA)	30,231	27,935	83,836	

NA Not available.

<sup>1</sup>The 1954 figures include data for establishments engaged in the processing and distribution of fluid milk, Industry Group 202, Dairy Products. These establishments were not included in the figures for the Annual Survey years 1949-1953 or earlier Census years. In addition, the 1954 Census and Annual Survey years include data for Logging camps and contractors, Industry 2411, which were not included within the scope of the 1947 Census. See footnotes to Table 4 for comparable 1954 and 1947 totals. There were also a number of changes in the definition of manufacturing industries during earlier Census years that affect the comparability of the historical series. Among the more important of these were: figures for 1935 and later years exclude data for "Railroad repair shops" and "Manufactured gas" which were included in 1899-1933 figures; the minimum size of establishment included for 1954 and 1947 was one employee, for 1939-1921 manufacturing establishments reporting value of shipments of \$5,000 or more were within scope whereas for 1919 and earlier years the cut-off was \$500. (This change in procedure has not appreciably affected the comparability of the historical data except for the figures on number of establishments.)

<sup>2</sup>The employment and payroll figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures Volume for this period.



## MANUFACTURES—AREA STATISTICS

Table 3.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, PARISHES, AND URBAN PLACES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
Louisiana, total.....	2,683,516	3,020	144,757	531,639	114,378	232,019	375,730	1,181,649	174,396	( <sup>1</sup> )	( <sup>1</sup> )
STANDARD METROPOLITAN AREAS											
Baton Rouge area.....	158,236	142	18,882	98,399	12,409	24,836	59,260	254,864	36,875	16,818	132,820
New Orleans area.....	685,405	856	53,312	193,617	41,423	81,758	135,236	374,873	64,588	45,363	222,995
Shreveport area.....	216,686	228	8,037	28,592	6,112	12,603	19,693	65,453	3,513	7,779	36,311
PARISHES											
Acadia.....	47,050	44	901	2,578	680	1,580	1,671	7,973	742	984	7,949
Allen.....	18,835	21	1,883	5,796	1,724	4,022	5,161	9,324	1,044	1,200	4,091
Ascension.....	22,387	20	519	956	482	940	864	1,922	156	632	1,821
Assumption.....	17,278	17	838	2,376	768	1,832	2,068	9,817	501	872	5,345
Avoyelles.....	38,031	23	516	1,233	467	1,000	1,105	2,364	65	348	1,996
Bauregard.....	17,766	27	(D)	(D)	(D)	(D)	(D)	(D)	(D)	765	3,548
Bienville.....	19,105	29	677	1,631	626	1,375	1,403	2,433	369	959	2,646
Bossier.....	40,139	41	702	2,075	616	1,300	1,555	5,922	239	1,272	5,230
Caddo.....	176,547	187	7,335	26,517	5,496	11,303	18,138	59,531	3,274	6,507	31,081
Calcasieu.....	89,635	101	7,468	35,901	5,566	11,365	25,096	106,851	18,980	5,597	53,195
Caldwell.....	10,293	16	132	243	119	203	209	375	22	896	2,843
Cameron.....	6,244	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	97	(D)
Cathaula.....	11,834	9	172	353	154	275	268	540	17	102	245
Claiborne.....	25,063	33	188	444	149	267	323	964	101	507	1,027
Concordia.....	14,398	12	196	391	177	345	316	512	26	373	823
DeSoto.....	24,398	30	1,003	2,817	931	2,059	2,320	5,391	160	1,249	4,545
East Baton Rouge.....	158,236	142	18,882	98,399	12,409	24,836	59,260	254,864	36,875	16,818	132,820
East Carroll.....	16,302	7	154	338	139	313	283	245	22	214	(D)
East Feliciana.....	19,133	16	120	212	108	183	181	413	37	340	1,569
Evangeline.....	31,629	21	282	1,042	264	535	960	2,852	80	379	2,653
Franklin.....	29,376	8	124	265	110	225	226	725	40	126	548
Grant.....	14,263	19	159	257	144	248	234	542	21	456	966
Iberia.....	40,059	49	1,043	2,824	843	1,830	2,178	5,451	273	1,537	7,018
Iberville.....	26,750	26	631	1,462	556	1,079	1,108	2,181	154	938	2,626
Jackson.....	15,434	53	1,641	(D)	1,407	(D)	(D)	(D)	(D)	1,946	(D)
Jefferson.....	103,873	124	12,192	50,949	9,366	19,574	35,510	96,200	49,162	8,473	53,130
Jefferson Davis.....	26,298	22	210	538	179	388	446	1,040	101	287	1,454
Lafayette.....	57,743	47	1,194	3,316	827	1,727	1,850	6,489	550	853	3,663
Lafourche.....	42,209	51	1,584	4,645	1,379	3,097	3,809	6,800	926	1,644	4,727
LaSalle.....	12,717	23	775	1,912	713	1,666	1,686	2,721	155	579	1,557
Lincoln.....	25,782	36	463	1,082	388	836	815	2,185	74	627	1,709
Livingston.....	20,054	44	470	854	432	810	736	1,492	132	589	1,417
Madison.....	17,451	16	758	1,678	646	1,347	1,321	2,617	150	1,338	4,251
Morehouse.....	32,038	24	3,123	(D)	2,598	(D)	(D)	(D)	(D)	2,765	(D)
Natchitoches.....	38,144	44	336	679	284	487	473	1,360	91	764	2,142
Orleans <sup>2</sup> .....	570,445	712	36,437	123,450	28,186	54,455	84,632	223,290	11,086	35,302	163,585
Ouachita.....	74,713	131	5,402	19,951	4,488	9,216	14,817	51,540	3,738	3,720	25,646
Plaquemines.....	14,239	12	467	1,039	409	733	686	2,579	374	241	324
Pointe Coupee.....	21,841	14	352	717	312	650	611	1,467	440	412	1,095
Rapides.....	90,648	101	3,523	9,681	2,839	6,231	6,445	16,994	819	3,591	13,643
Red River.....	12,113	8	65	103	62	111	97	233	15	71	199
Richland.....	26,672	12	101	238	91	175	196	446	12	167	515
Sabine.....	20,880	44	767	1,679	707	1,488	1,485	2,520	157	1,099	3,513
St. Bernard.....	11,087	20	4,683	19,218	3,871	7,729	15,094	55,383	4,340	1,875	8,734
St. Charles.....	13,363	9	2,098	10,759	1,441	2,789	6,930	25,029	18,697	1,105	(D)
St. Helena.....	9,013	9	50	55	46	76	50	145	9	179	317
St. James.....	15,334	7	756	2,489	717	1,756	2,307	3,805	206	864	(D)
St. John The Baptist.....	14,861	9	1,015	(D)	886	(D)	(D)	(D)	(D)	1,264	(D)
St. Landry.....	78,476	54	1,002	2,434	809	1,769	1,721	4,737	357	1,150	4,411
St. Martin.....	26,353	17	368	910	318	758	705	1,315	124	514	1,367
St. Mary.....	35,848	47	1,800	5,490	1,537	3,114	4,194	12,758	3,034	1,944	6,340
St. Tammany.....	26,988	43	907	2,527	809	1,632	1,962	3,812	164	1,034	3,685
Tangipahoa.....	53,218	67	2,242	4,496	2,025	3,744	3,594	8,534	421	2,385	6,367
Tensas.....	13,209	8	242	569	227	462	493	849	31	218	423
Terrebonne.....	43,328	55	1,875	3,833	1,687	2,527	2,927	8,218	441	2,110	5,528
Union.....	19,141	41	330	649	302	575	600	1,126	70	822	2,199
Vermillion.....	36,929	31	693	1,610	582	1,210	1,181	6,233	311	552	2,963
Vernon.....	18,974	18	177	274	165	285	250	528	30	435	940
Washington.....	38,371	40	3,898	(D)	3,434	(D)	(D)	(D)	(D)	3,522	(D)
Webster.....	35,704	51	6,314	22,528	5,440	11,515	17,866	50,038	7,532	3,441	(D)
West Baton Rouge.....	11,738	5	164	463	132	424	381	968	58	302	782
West Carroll.....	17,248	10	46	93	39	75	76	113	14	110	195
West Feliciana.....	10,169	8	496	728	465	672	667	1,005	47	204	(D)
Winn.....	16,119	53	759	1,672	676	1,311	1,403	3,264	151	612	2,542

See footnotes at end of table.

Table 3.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, PARISHES, AND URBAN PLACES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
CITIES WITH 10,000 INHAB- ITANTS OR MORE											
Alexandria.....	34,913	55	2,036	5,730	1,586	3,624	3,767	10,302	482	1,603	6,746
Bastrop.....	12,769	15	3,011	(D)	2,506	(D)	(D)	(D)	(D)	(NA)	(NA)
Baton Rouge.....	125,629	110	4,235	16,941	2,869	6,039	10,566	39,998	3,905	4,455	42,693
Bogalusa.....	17,798	25	3,452	(D)	3,027	(D)	(D)	(D)	(D)	3,224	(D)
Bossier City.....	15,470	20	422	1,320	370	791	994	3,944	182	(NA)	(NA)
Crowley.....	12,784	27	503	1,480	359	879	840	4,118	335	(NA)	(NA)
Gretna.....	13,813	14	574	1,807	450	888	1,319	8,703	227	700	(D)
Houma.....	11,505	26	638	1,599	530	714	1,061	2,938	158	(NA)	(NA)
Jennings.....	(NA)	9	110	325	96	214	282	650	69	(NA)	(NA)
Lafayette.....	33,541	36	990	2,763	647	1,287	1,408	5,551	326	575	2,736
Lake Charles.....	41,272	48	1,700	7,220	1,198	2,498	4,592	20,309	806	651	4,346
Monroe.....	38,572	64	1,925	5,891	1,409	2,925	3,677	11,833	809	1,764	8,359
New Iberia.....	16,467	23	333	711	227	464	472	1,687	74	443	2,043
New Orleans <sup>2</sup> .....	570,445	712	36,437	123,450	28,186	54,455	84,632	223,290	11,086	35,302	163,585
Opelousas.....	11,659	22	438	1,155	336	749	765	2,343	117	(NA)	(NA)
Ruston.....	10,372	14	221	582	160	365	349	1,400	44	(NA)	(NA)
Shreveport.....	127,206	157	5,737	19,437	4,110	8,630	12,263	45,651	2,459	4,504	19,060
West Monroe.....	10,302	23	637	2,178	579	1,219	1,841	4,456	312	(NA)	(NA)

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>The 1947 data are not strictly comparable with the figures shown for 1954 due to differences in coverage of loggers and fluid milk distributors. See discussion in Introduction and footnotes to Table 4.

<sup>2</sup>New Orleans city is coextensive with Orleans Parish.

## MANUFACTURES--AREA STATISTICS

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947

(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
	All industries, total <sup>1</sup> ...	3,020	897	144,757	531,639	114,378	232,019	375,730	1,181,649	( <sup>2</sup> )	196,819	( <sup>3</sup> )	( <sup>3</sup> )
20	Food and kindred products..	762	292	30,734	91,751	21,789	43,510	54,572	214,983	( <sup>2</sup> )	14,007	( <sup>3</sup> )	( <sup>3</sup> )
201	Meat products.....	69	18	1,821	5,608	1,314	2,739	3,419	8,360	( <sup>2</sup> )	639	1,689	6,741
2011	Meat packing, plants.....	35	11	1,095	3,724	816	1,847	2,411	5,909	( <sup>2</sup> )	375	971	3,865
2013	Prepared meats.....	18	5	489	1,511	285	565	709	1,508	( <sup>2</sup> )	197	718	2,976
2015	Poultry dressing, plants.....	16	2	236	373	213	327	299	942	5,121	66	...	..
202	Dairy products.....	105	30	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	( <sup>3</sup> )	( <sup>3</sup> )
2024	Ice cream and ices.....	23	7	528	1,453	310	661	740	4,098	9,287	362	( <sup>3</sup> )	( <sup>3</sup> )
2026	Fluid milk.....	31	4	221	584	134	272	297	1,209	5,010	166	( <sup>3</sup> )	( <sup>3</sup> )
2027	Fluid milk and other products..	48	19	2,402	8,604	1,010	2,355	3,139	17,628	52,141	1,395	( <sup>3</sup> )	( <sup>3</sup> )
205	Canned and frozen foods.....	84	47	4,978	7,937	4,471	5,423	5,490	15,323	( <sup>2</sup> )	473	4,326	8,546
2031	Canned seafood.....	24	19	1,915	2,297	1,817	1,977	1,820	5,377	14,589	142	2,340	2,752
2033	Canned fruits and vegetables...	18	12	1,128	1,551	1,079	1,461	1,382	1,889	8,229	101	430	1,420
2035	Pickles and sauces.....	12	5	717	2,359	419	791	920	4,789	16,860	95	754	(D)
2036	Packaged seafood.....	17	7	885	1,307	848	803	1,034	2,454	11,884	(D)	(NA)	(NA)
204	Grain mill products.....	68	35	2,160	6,275	1,740	3,945	4,126	20,885	( <sup>2</sup> )	1,138	2,503	17,947
2044	Rice milling.....	40	25	1,349	3,750	1,113	2,547	2,566	15,501	78,452	889	1,772	14,267
205	Bakery products.....	101	37	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2051	Bread and related products.....	99	36	4,164	14,308	2,369	5,131	6,750	24,333	49,772	2,112	(D)	(D)
206	Sugar.....	53	47	6,138	19,200	5,446	12,793	16,311	43,814	( <sup>2</sup> )	3,549	8,241	36,552
207	Candy and related products...	12	3	355	881	306	714	670	1,629	3,664	55	549	2,104
2071	Confectionery products.....	12	3	355	881	306	714	670	1,629	3,664	55	549	2,104
208	Beverages.....	83	39	4,686	17,080	2,555	5,095	8,564	44,729	( <sup>2</sup> )	2,891	3,644	25,606
2082	Beer and ale.....	4	4	2,151	9,771	1,494	2,966	6,360	28,492	50,949	1,773	1,432	13,489
209	Miscellaneous foods.....	187	36	3,134	9,486	2,011	4,151	4,855	32,415	( <sup>2</sup> )	1,201	3,616	23,971
2092	Shortening and cooking oil....	3	3	336	1,113	256	511	739	7,573	43,120	(D)	(D)	(D)
2097	Manufactured ice.....	110	10	1,022	2,630	712	1,650	1,711	4,701	6,040	309	1,528	7,013
2099	Food preparations, n.e.c.....	58	18	1,432	4,839	776	1,498	1,842	11,411	64,359	473	1,342	9,186
21	Tobacco manufactures.....	3	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	784	(D)
22	Textile mill products.....	17	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2,347	7,838
229	Miscellaneous textile goods..	14	5	744	2,281	624	1,173	1,739	7,744	( <sup>2</sup> )	(D)	(D)	(D)
2298	Cordage and twine.....	5	4	657	2,056	551	1,057	1,553	7,080	14,312	171	(D)	(D)
23	Apparel and related products.....	76	40	6,179	13,463	5,437	9,471	9,640	20,568	( <sup>2</sup> )	1,190	6,188	18,986
231	Men's and boys' suits and coats.....	7	6	1,224	2,863	1,078	1,785	1,893	4,341	8,453	37	1,706	4,938
2311	Men's and boys' suits and coats	7	6	1,224	2,863	1,078	1,785	1,893	4,341	8,453	37	1,706	4,938
232	Men's and boys' furnishings..	19	17	2,877	5,991	2,577	4,557	4,433	10,111	( <sup>2</sup> )	124	2,472	7,598
2327	Separate trousers.....	10	8	750	1,321	686	1,191	1,080	1,814	4,353	(D)	(D)	(D)
234	Women's undergarments.....	8	5	663	1,409	596	1,085	1,024	2,068	( <sup>2</sup> )	48	(D)	(D)
239	Fabricated textiles, n.e.c....	29	10	1,177	2,823	976	1,695	1,992	3,654	( <sup>2</sup> )	978	1,378	4,729
2394	Canvas products.....	4	3	317	763	277	506	573	1,043	2,274	21	164	(D)
24	Lumber and wood products...	932	193	19,497	43,419	17,769	36,153	36,379	68,290	( <sup>2</sup> )	4,028	( <sup>3</sup> )	( <sup>3</sup> )
2411	Logging camps and contractors	451	18	2,505	4,076	2,237	3,741	3,607	7,948	14,674	725	( <sup>3</sup> )	( <sup>3</sup> )
242	Lumber and basic products....	353	136	12,963	29,341	12,055	25,379	25,230	44,560	( <sup>2</sup> )	2,764	23,589	63,949
2421	Sawmills and planing mills....	341	126	12,376	28,242	11,507	24,373	24,284	42,789	84,970	2,738	21,667	59,588
2422	Veneer mills.....	6	6	362	664	343	644	560	1,136	2,061	19	494	1,214
2424	Cooperage stocks mills.....	6	4	225	435	205	362	386	634	1,499	7	1,428	3,147
243	Millwork and related products	65	15	1,445	4,353	1,162	2,467	3,013	6,251	( <sup>2</sup> )	252	1,856	6,533
2431	Millwork plants.....	61	12	928	2,849	760	1,702	2,061	4,603	10,586	204	965	3,084
244	Wooden containers.....	21	8	1,567	3,237	1,407	2,668	2,594	4,988	( <sup>2</sup> )	133	2,632	7,477
249	Miscellaneous wood products..	42	16	1,016	2,410	907	1,895	1,934	4,541	( <sup>2</sup> )	152	1,023	6,213
2491	Wood preserving.....	21	10	685	1,708	598	1,263	1,340	3,409	11,730	101	886	5,805
2499	Wood products, n.e.c.....	21	6	330	701	309	632	593	1,131	2,265	50	137	408
25	Furniture and fixtures.....	86	21	1,373	3,673	1,186	2,308	2,727	6,141	( <sup>2</sup> )	22,633	1,344	4,613
251	Household furniture.....	56	17	1,139	3,041	993	1,954	2,293	5,044	( <sup>2</sup> )	22,606	1,156	3,907
2511	Wood furniture, not upholstered	22	6	335	877	292	563	663	1,645	3,856	22,491	714	2,403
2512	Upholstered household furniture.....	8	5	466	1,320	414	856	1,053	2,041	4,142	33	187	(D)
2515	Mattresses and bedsprings.....	23	4	286	707	245	459	490	1,189	2,600	(D)	255	(D)
26	Pulp, paper and products...	51	44	17,099	70,213	14,884	31,928	57,198	163,187	( <sup>2</sup> )	11,334	14,156	99,217
261	Pulp, paper and boards.....	20	19	11,970	51,820	10,461	22,845	42,896	132,302	( <sup>2</sup> )	9,418	11,013	80,511
2612	Paper and paper board mills....	8	8	4,842	21,656	4,275	9,495	17,984	49,302	181,106	3,733	(NA)	(NA)
2661	Paper bags.....	11	9	2,344	7,941	2,200	4,407	7,073	11,228	47,296	939	1,555	8,935
267	Paperboard containers.....	13	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2671	Paperboard boxes.....	12	9	2,361	8,832	1,877	3,935	6,058	15,794	47,321	714	1,361	8,679
269	Pulp, paper and products, n.e.c.....	6	5	306	1,180	247	530	813	2,963	( <sup>2</sup> )	226	(D)	(D)

See footnotes at end of table.



Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establish- ments, number		All employees		Production workers			Value added by manufacture	Value of shipments	Capital expendi- tures, new	All employees, number	Value added by manufacture
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
								(\$1,000)	(\$1,000)	(\$1,000)			(\$1,000)
27	Printing and publishing....	303	35	4,736	18,825	2,958	5,793	11,214	34,571	( <sup>2</sup> )	1,395	3,973	23,005
2711	Newspapers.....	99	16	3,043	12,666	1,725	3,278	6,891	24,650	36,490	824	2,463	16,298
2751	Commercial printing.....	128	16	1,253	4,620	964	1,922	3,371	6,948	10,837	442	1,064	4,825
279	Printing trade services.....	25	1	158	623	119	304	454	1,060	( <sup>2</sup> )	55	131	652
28	Chemicals and products.....	177	84	17,479	83,752	12,846	26,800	57,153	250,238	( <sup>2</sup> )	67,476	12,852	113,482
281	Inorganic chemicals.....	17	12	6,420	30,611	4,258	9,040	19,203	80,760	( <sup>2</sup> )	50,720	3,305	19,878
2819	Inorganic chemicals, n.e.c.....	13	8	5,048	24,136	3,225	6,920	14,422	48,965	101,168	(D)	(NA)	(NA)
282	Organic chemicals.....	13	13	6,326	35,681	4,797	9,381	25,293	125,533	( <sup>2</sup> )	10,710	4,947	64,385
2829	Organic chemicals, n.e.c.....	7	7	4,585	27,004	3,454	6,862	19,098	101,088	175,858	7,618	(NA)	(NA)
285	Paints and allied products...	19	4	387	1,494	237	483	733	2,378	( <sup>2</sup> )	114	382	2,286
286	Gum and wood chemicals.....	6	6	940	3,816	796	1,750	2,883	8,479	16,513	1,149	833	5,919
2862	Softwood distillation.....	6	6	940	3,816	796	1,750	2,883	8,479	16,513	1,149	833	5,919
287	Fertilizers.....	12	10	652	2,033	506	989	1,389	3,511	( <sup>2</sup> )	296	897	3,857
2871	Fertilizers.....	7	7	542	1,723	411	816	1,157	3,176	11,016	(D)	620	(D)
2872	Fertilizers, mixing only.....	5	3	109	309	94	173	232	335	1,954	(D)	277	(D)
288	Vegetables and animal oils...	27	17	941	3,003	772	2,028	2,157	6,882	( <sup>2</sup> )	867	971	6,549
2881	Cottonseed oil mills.....	14	12	580	1,824	471	1,294	1,306	3,450	19,011	504	542	3,219
2889	Animal oils, n.e.c.....	4	4	230	825	194	494	584	2,561	7,395	245	...	...
289	Chemical products, n.e.c.....	55	20	1,669	6,701	1,374	2,925	5,250	21,343	( <sup>2</sup> )	3,565	1,366	10,012
2895	Carbon black.....	10	7	859	3,899	775	1,728	3,410	14,012	21,273	2,656	521	5,769
2896	Compressed and liquefied gases.	14	5	267	945	157	311	554	2,285	3,182	276	228	1,506
2897	Insecticides and fungicides....	6	4	166	568	131	256	343	1,464	5,215	79	(D)	(D)
29	Petroleum and coal products	30	24	14,043	76,834	8,806	17,557	44,380	188,438	( <sup>2</sup> )	58,444	12,657	121,998
2911	Petroleum refining.....	19	17	12,931	72,094	7,917	15,647	41,030	175,988	1,038,525	57,957	11,453	114,162
295	Paving and roofing materials.	6	3	684	2,787	548	1,201	1,970	6,665	( <sup>2</sup> )	264	898	5,720
2952	Roofing felts and coatings.....	3	3	662	2,732	532	1,169	1,934	6,454	16,517	264	(D)	(D)
299	Petroleum and coal products, n.e.c.....	5	4	427	1,952	340	708	1,379	5,785	19,211	223	306	2,116
2992	Lubricants, n.e.c.....	5	4	427	1,952	340	708	1,379	5,785	19,211	223	306	2,116
30	Rubber products.....	1	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...	...
32	Stone, clay and glass products.....	115	32	4,824	18,119	4,028	8,329	13,996	40,856	( <sup>2</sup> )	3,291	3,392	16,589
325	Structural clay products.....	14	9	451	1,143	399	799	825	1,663	2,121	237	306	757
3251	Brick and hollow tile.....	14	9	451	1,143	399	799	825	1,663	2,121	237	306	757
327	Concrete and plaster products	70	11	966	2,704	771	1,688	1,857	4,723	11,249	565	657	2,171
3271	Concrete products.....	70	11	966	2,704	771	1,688	1,857	4,723	11,249	565	(D)	(D)
329	Nonmetallic mineral products, n.e.c.....	12	8	1,598	6,115	1,332	2,776	4,684	13,017	( <sup>2</sup> )	750	(D)	(D)
3292	Asbestos products.....	6	6	1,517	5,895	1,258	2,634	4,488	11,792	23,591	(D)	1,154	(D)
33	Primary metal industries...	19	9	3,886	17,919	3,259	6,838	13,981	47,014	( <sup>2</sup> )	2,460	805	2,458
332	Iron and steel foundries.....	9	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3321	Gray-iron foundries.....	6	2	103	322	94	179	245	500	729	15	214	(D)
34	Fabricated metal products..	149	37	4,875	19,954	3,857	8,051	14,267	35,162	( <sup>2</sup> )	2,447	3,749	15,985
344	Structural metal products....	111	26	2,858	11,291	2,171	4,454	7,413	16,898	( <sup>2</sup> )	1,558	2,305	7,985
3441	Structural and ornamental work.	54	15	1,258	4,797	994	2,082	3,368	6,618	16,783	338	592	2,362
3442	Metal doors, sash, and trim....	4	1	166	499	131	256	359	753	1,137	(D)	...	...
3443	Boiler shop products.....	8	5	1,067	4,739	750	1,539	2,802	7,080	19,260	1,019	(D)	(D)
3444	Sheet-metal work.....	45	5	367	1,256	294	576	883	2,445	5,094	(D)	(D)	(D)
346	Metal stamping and coating...	13	3	435	1,704	336	742	1,226	3,026	( <sup>2</sup> )	106	(D)	(D)
349	Metal products, n.e.c.....	11	5	449	1,970	392	795	1,602	5,629	( <sup>2</sup> )	274	356	3,570
3491	Metal barrels, drums, and pails	7	5	428	1,915	376	765	1,551	5,511	13,605	253	356	3,570
35	Machinery, except electri- cal.....	107	28	2,730	10,800	2,093	4,291	7,247	15,682	( <sup>2</sup> )	531	1,845	6,521
352	Tractors and farm machinery..	11	3	241	886	182	428	631	1,086	3,105	23	343	583
3522	Farm machinery (except tractors).....	11	3	241	886	182	428	631	1,086	3,105	23	(D)	(D)
353	Construction and mining ma- chinery.....	8	5	605	2,494	513	1,145	1,839	4,265	( <sup>2</sup> )	154	(D)	(D)
355	Special-industry machinery, n.e.c.....	17	7	467	1,747	363	725	1,142	2,777	( <sup>2</sup> )	96	597	2,066
3553	Woodworking machinery.....	5	2	100	521	79	177	372	857	1,451	42	179	(D)
3559	Special-industry machinery, n.e.c.....	5	3	155	504	123	205	306	773	1,246	22	(D)	(D)
358	Services and household ma- chines.....	6	2	144	600	104	204	298	870	( <sup>2</sup> )	(D)	(D)	(D)

See footnotes at end of table.

## MANUFACTURES—AREA STATISTICS

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
359	Miscellaneous machinery parts	41	7	570	2,272	435	787	1,463	3,256	( <sup>2</sup> )	155	181	738
36	Electrical machinery.....	8		(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	95	(D)
37	Transportation equipment...	104	33	9,337	38,973	8,498	17,271	33,904	50,963	( <sup>2</sup> )	1,954	9,358	34,162
373	Ships and boats.....	89	24	8,553	35,945	7,799	15,713	31,375	44,131	( <sup>2</sup> )	1,850	(D)	(D)
3731	Ship building and repairing....	26	18	7,974	34,132	7,279	14,686	29,848	41,629	66,116	1,648	6,384	25,336
3732	Boat building and repairing....	63	6	578	1,813	519	1,027	1,527	2,502	4,920	201	(D)	(D)
38	Instruments and related products.....	8	2	161	461	123	233	249	733	( <sup>2</sup> )	11	102	248
39	Miscellaneous manufactures <sup>4</sup>	72	12	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	919	3,313
398	Miscellaneous manufactures...	50	8	4,113	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3981	Brooms and brushes.....	13	1	181	388	139	256	260	478	1,198	(D)	84	(D)
3988	Morticians' goods.....	9	1	223	621	193	398	461	808	1,575	56	216	(D)

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industries (4-digit) and industry groups (3-digit) are not shown. Industries and industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "all industries" line.

<sup>2</sup>The total value of shipments figures for industry groups and a few individual industries have not been published due to the extensive and unmeasurable duplication arising from shipments from one establishment to another in the same industry classification. (See Introduction)

<sup>3</sup>Comparable data are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude establishments in S.I.C. Industry 2411, Logging Camps and Contractors, which are included in the scope of the 1954 Census; the 1947 Census also excludes plants processing and distributing fluid milk which in 1954 were classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	All industries except subgroups 202 and 2411, total.....	139,518	1,150,718	131,857	691,777
20	Food and kindred products except subgroup 202, Dairy products.....	28,000	192,000	28,148	136,852
24	Lumber and wood products except Industry 2411, Logging camps and contractors.....	16,992	60,342	29,100	84,172

<sup>4</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)

Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947  
(For explanation of column captions see Introduction)

Code	Industry group	Establishments, number	1954							1947	
			All employees		Production workers			Value added by manufacture	Capital expenditures, new	All employees, number	Value added by manufacture
			Numero	Payroll (\$1,000)	Number	Man-hours ((1,000)	Wages (\$1,000)				
NEW ORLEANS STANDARD METROPOLITAN AREAS (Consists of Jefferson, Orleans and St. Bernard Parishes, Louisiana)											
	All industries, total <sup>1</sup> ...	856	53,313	193,617	41,425	81,758	135,237	374,874	64,589	245,363	222,995
20	Food and kindred products...	218	13,283	43,198	8,759	16,547	23,719	107,035	6,040	(3)	(3)
201	Meat products.....	15	610	2,086	405	822	1,148	2,356	218	731	2,964
202	Dairy products.....	34	1,345	5,047	609	1,359	1,901	10,538	781	(3)	(3)
203	Canned and frozen foods.....	30	2,114	3,753	1,771	2,138	2,099	8,033	142	1,913	4,395
204	Grain mill products.....	8	272	940	230	467	554	2,681	106	444	3,453
205	Bakery products.....	39	1,995	6,310	1,197	2,487	3,279	9,424	728	1,766	6,952
207	Candy and related products.....	6	311	823	266	645	619	1,492	47	(D)	(D)
208	Beverages.....	16	3,158	12,812	1,873	3,787	7,281	35,904	2,163	2,300	18,903
209	Miscellaneous foods.....	68	2,128	6,789	1,295	2,602	3,202	25,721	798	2,163	17,498
21	Tobacco manufactures.....	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	692	(D)
22	Textile mill products.....	12	2,367	6,399	2,138	4,048	5,270	12,260	340	2,259	7,758
229	Miscellaneous textile goods....	9	722	2,235	604	1,138	1,695	7,654	(D)	(D)	(D)
23	Apparel & related products..	57	5,167	11,583	4,515	7,857	8,097	17,925	1,124	5,569	17,464
231	Men's & boys' suits & coats....	7	1,224	2,863	1,076	1,785	1,893	4,341	37	(D)	(D)
232	Men's & boys' furnishings.....	14	2,176	4,763	1,932	3,425	3,403	8,379	71	(D)	(D)
239	Fabricated textiles, nec.....	20	1,054	2,559	864	1,488	1,769	3,276	971	1,355	4,676
24	Lumber and wood products....	57	1,248	3,632	1,041	2,100	2,707	5,261	291	2,135	8,396
243	Millwork & related products....	34	722	2,188	579	1,174	1,585	3,072	222	(D)	(D)
244	Wooden containers.....	10	298	819	254	471	575	979	19	1,212	3,511
25	Furniture and fixtures.....	32	672	2,030	587	1,136	1,466	3,003	80	1,119	3,562
251	Household furniture.....	17	529	1,621	464	904	1,180	2,325	68	987	3,068
26	Pulp, paper and products.....	17	3,664	14,838	3,255	6,817	12,520	34,647	1,256	3,633	24,921
267	Paperboard containers.....	9	716	2,248	619	1,288	1,635	4,389	202	629	3,114
27	Printing and publishing.....	136	2,473	10,140	1,466	2,857	5,897	18,869	596	2,255	13,505
271	Newspaper.....	12	1,450	6,496	716	1,400	3,316	12,890	237	(D)	(D)
275	Commercial printing.....	73	704	2,536	535	1,038	1,827	3,765	259	(D)	(D)
279	Printing trade services.....	20	116	435	92	178	338	766	45	(D)	(D)
28	Chemicals and products.....	72	2,963	12,868	1,370	2,808	4,686	14,591	45,886	1,670	19,996
281	Inorganic chemicals.....	4	1,392	7,171	252	601	1,120	778	44,696	(D)	(D)
282	Organic chemicals.....	5	398	1,686	309	665	1,215	6,350	457	(D)	(D)
285	Paints and allied products....	14	281	1,081	162	332	503	1,322	90	(D)	(D)
287	Fertilizers.....	3	282	1,002	205	383	649	1,477	246	441	1,895
289	Chemical products, nec.....	28	403	1,315	277	516	809	3,198	328	286	1,499
29	Petroleum and coal products..	9	1,177	5,269	914	1,938	3,699	13,797	1,693	1,156	8,463
291	Petroleum refining.....	3	295	1,364	227	491	1,061	4,334	1,242	(D)	(D)
30	Rubber products.....	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...	...
32	Stone, clay, & glass prod...	32	2,821	10,887	2,300	4,961	8,135	24,969	2,007	1,222	6,756
327	Concrete & plaster products....	12	421	1,384	322	768	887	2,006	105	(D)	(D)
33	Primary metal industries....	6	3,336	(D)	2,774	(D)	(D)	(D)	(D)	(D)	1,381
34	Fabricated metal products...	83	3,252	13,284	2,673	5,620	10,180	24,265	1,141	2,278	11,054
344	Structural metal products.....	52	1,273	4,729	1,018	2,080	3,419	6,201	281	875	3,202
349	Metal products, nec.....	7	425	1,909	372	760	1,544	5,504	250	(D)	(D)
35	Machinery, exc. electrical..	42	1,167	4,826	820	1,555	2,953	6,046	161	157	923
356	General industrial machinery...	8	155	531	120	218	327	923	65	(D)	(D)
358	Service & household machines...	4	137	580	98	191	280	771	1	(D)	(D)
359	Miscellaneous machine parts....	20	407	1,677	297	514	1,026	2,367	79	(D)	(D)
36	Electrical machinery.....	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
37	Transportation equipment....	41	7,781	33,490	7,083	14,248	29,218	40,042	1,653	8,380	30,399
373	Ships and boats.....	35	7,654	33,034	6,995	14,076	28,984	39,624	1,597	8,207	29,573
38	Instruments & related prod..	4	137	365	105	197	196	512	7	90	(D)

See footnotes at end of table.



## MANUFACTURES—AREA STATISTICS

Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947--Continued  
(For explanation of column captions see Introduction)

Code	Industry group	Establishments, number	1954							1947	
			All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours ((1,000)	Wages (\$1,000)				
39	Miscellaneous manufactures <sup>4</sup> .	31	945	3,258	784	1,618	2,433	5,059	192	532	2,028
398 399	Miscellaneous manufactures <sup>4</sup> ....	19	865	3,044	722	1,495	2,289	4,619	141	464	1,752

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industry groups (3-digit are not shown. Industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "All industries" line.

<sup>2</sup>The 1954 and 1947 "All industries" totals are not strictly comparable because of differences in scope between the two years in Major group 20 (see footnote 3).

<sup>3</sup>Comparable data for Major group 20 are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude plants processing and distributing fluid milk which in 1954 were classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1000)	All employees, number	Value added by manufacture (\$1000)
20	Food and kindred products except Sub-group 202, Dairy Products	11,938	96,497	11,500	63,000

<sup>4</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)

Table 6.—GENERAL STATISTICS FOR PRINCIPAL INDUSTRIAL PARISHES, BY MAJOR INDUSTRY GROUP: 1954 AND 1947

(Principal industrial parishes include all parishes with 20,000 or more manufacturing employees. For explanation of column captions see Introduction)

Code	Major industry group	1954								1947	
		Establish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendit- ures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Pay roll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
		ORLEANS PARISH									
	All industries, total <sup>1</sup> .....	712	36,437	123,450	28,186	54,455	84,632	223,290	11,086	<sup>2</sup> 35,302	<sup>2</sup> 163,585
20	Food and kindred products.....	170	9,955	33,961	6,161	12,067	17,622	79,916	4,513	8,623	51,547
22	Textile mill products.....	8	2,225	5,928	2,018	3,812	4,913	10,903	239	2,259	7,758
23	Apparel and related products..	57	5,167	11,583	4,515	7,857	8,097	17,925	1,124	5,482	(D)
24	Lumber and wood products.....	40	696	2,041	558	1,136	1,493	2,763	185	851	4,135
25	Furniture and fixtures.....	28	616	1,816	535	1,042	1,272	2,668	70	(D)	(D)
27	Printing and publishing.....	126	2,434	10,025	1,434	2,798	5,797	18,529	586	(D)	(D)
28	Chemicals and products.....	60	937	3,246	634	1,235	1,887	7,706	449	885	9,815
34	Fabricated metal products.....	70	2,285	8,948	1,845	3,803	6,688	15,093	785	1,717	(D)
35	Machinery except electrical...	37	1,144	4,720	801	1,513	2,879	5,832	151	(D)	(D)
38	Instruments and related prod..	4	137	365	105	197	196	512	7	90	(D)

D Withheld to avoid disclosing data for individual companies.

<sup>1</sup>In order to avoid disclosing data for individual companies, the statistics for some industry groups are not shown. Industry groups reporting less than 100 employees are also omitted. They are included, however, in the "All industries" line.<sup>2</sup>The 1954 and 1947 "All industries" totals are not strictly comparable because of differences in coverage of loggers and fluid milk distributors. See discussion in Introduction and footnote to Table 4 for comparable figures at the State level.





Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR PARISHES: 1954—Continued  
(Parishes and size classes in which no manufacturing establishments were reported are omitted)

State, parishes, and size class	Establish- ments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Franklin:																					
1 to 19 employees.....	7	2	...	...	...	3	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Grant:																					
1 to 19 employees.....	15	...	...	...	...	13	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	4	...	...	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Iberia:																					
1 to 19 employees.....	32	17	...	2	...	3	3	...	1	1	...	...	...	1	...	...	1	...	3	...	...
20 to 99 employees.....	15	8	...	...	...	1	1	...	1	...	...	...	...	...	1	...	2	...	...	...	1
100 employees and over.....	2	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
Iberville:																					
1 to 19 employees.....	18	6	...	...	...	6	...	...	2	...	...	...	...	1	...	1	1	...	1	...	...
20 to 99 employees.....	6	2	...	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
Jackson:																					
1 to 19 employees.....	48	2	...	...	...	43	...	...	1	1	...	...	...	...	...	...	...	...	...	...	1
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	4	...	...	...	...	1	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...
Jefferson:																					
1 to 19 employees.....	71	26	...	3	...	11	2	...	8	1	...	...	...	5	...	6	4	1	4	...	...
20 to 99 employees.....	27	5	...	...	...	3	2	...	...	6	3	...	...	...	...	4	...	...	3	...	1
100 employees and over.....	26	7	...	1	...	2	...	3	...	4	2	...	...	2	...	2	...	...	1	...	2
Jefferson Davis:																					
1 to 19 employees.....	19	5	...	...	...	5	...	...	3	...	...	...	...	3	...	...	3	...	...	...	...
20 to 99 employees.....	3	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Lafayette:																					
1 to 19 employees.....	33	11	...	...	...	1	3	...	6	3	...	...	...	2	...	4	...	...	2	...	1
20 to 99 employees.....	11	6	...	...	...	1	...	...	...	1	...	...	...	3	...	...	...	...	...	...	...
100 employees and over.....	3	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Lafourche:																					
1 to 19 employees.....	36	13	...	...	...	4	...	...	3	...	...	...	...	...	...	1	2	...	12	...	1
20 to 99 employees.....	8	6	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	7	4	...	...	...	1	...	1	...	...	...	...	...	...	...	...	1	...	...	...	...
La Salle:																					
1 to 19 employees.....	18	1	...	...	...	14	...	...	1	...	...	...	...	...	...	1	1	...	...	...	...
20 to 99 employees.....	3	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Lincoln:																					
1 to 19 employees.....	30	5	...	...	...	21	1	...	2	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	6	2	...	...	...	3	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
Livingston:																					
1 to 19 employees.....	38	...	...	...	...	36	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	6	...	...	...	...	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Madison:																					
1 to 19 employees.....	11	4	...	...	...	6	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	4	1	...	...	...	2	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Morehouse:																					
1 to 19 employees.....	14	1	...	...	...	9	1	...	3	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	4	1	...	...	...	2	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	6	...	...	...	...	...	...	6	...	...	...	...	...	...	...	...	...	...	...	...	...
Natchitoches:																					
1 to 19 employees.....	39	3	...	...	...	28	...	...	4	...	...	...	...	3	...	...	1	...	...	...	...
20 to 99 employees.....	5	1	...	...	...	3	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
Orleans:																					
1 to 19 employees.....	470	91	...	1	25	33	17	6	111	48	1	1	...	13	2	50	26	3	17	2	23
20 to 99 employees.....	157	51	...	3	17	5	10	4	13	10	...	...	...	6	1	14	9	...	9	2	3
100 employees.....	85	28	2	4	15	2	1	4	2	2	1	...	...	6	2	6	2	...	7	...	1
Onachita:																					
1 to 19 employees.....	96	23	...	...	1	39	6	...	6	3	1	...	...	5	...	3	7	...	...	...	2
20 to 99 employees.....	23	8	...	...	1	5	2	2	1	3	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	12	...	...	...	1	1	1	6	1	2	...	...	...	...	...	...	...	...	...	...	...
Plaquemines:																					
1 to 19 employees.....	4	2	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1	...	...
20 to 99 employees.....	8	5	...	...	...	...	1	...	...	2	...	...	...	...	...	...	...	...	...	...	...
Pointe Coupee:																					
1 to 19 employees.....	7	2	...	...	...	3	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	6	1	...	...	...	3	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Rapides:																					
1 to 19 employees.....	67	14	...	...	1	30	3	...	3	1	...	...	...	3	1	3	1	...	1	...	6
20 to 99 employees.....	26	8	...	...	...	9	1	1	2	3	...	...	...	1	...	...	1	...	...	...	...
100 employees and over.....	8	1	...	...	...	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Red River:																					
1 to 19 employees.....	8	1	...	...	...	6	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Richland:																					
1 to 19 employees.....	11	...	...	...	...	3	...	...	2	2	...	...	...	...	...	3	1	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sabine:																					
1 to 19 employees.....	40	5	...	...	...	34	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	3	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
St. Bernard:																					
1 to 19 employees.....	10	4	...	...	...	1	...	...	2	...	...	...	...	...	...	1	1	...	...	...	1
20 to 99 employees.....	5	4	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	5	2	...	...	...	...	...	...	...	...	2	...	...	...	1	...	...	...	...	...	...

## MANUFACTURES—AREA STATISTICS

Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR PARISHES: 1954—Continued  
(Parishes and size classes in which no manufacturing establishments were reported are omitted)

State parishes, and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
St. Charles:																					
1 to 19 employees.....	4	3	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	2	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	3	...	...	...	...	...	...	...	...	1	2	...	...	...	...	...	...	...	...	...	...
St. Helena:																					
1 to 19 employees.....	9	...	...	...	...	9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
St. James:																					
1 to 19 employees.....	4	1	...	...	...	1	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
St. John the Baptist:																					
1 to 19 employees.....	4	1	...	...	...	1	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	4	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
St. Landry:																					
1 to 19 employees.....	39	17	...	1	...	7	2	...	5	2	...	...	...	3	...	...	...	...	...	...	2
20 to 99 employees.....	14	5	...	...	...	5	...	...	1	2	...	...	...	...	...	1	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
St. Martin:																					
1 to 19 employees.....	12	6	...	1	...	2	...	...	1	...	1	...	...	...	...	...	1	...	...	...	...
20 to 99 employees.....	5	4	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
St. Mary:																					
1 to 19 employees.....	27	8	...	...	...	3	...	...	1	1	...	...	...	2	...	...	1	...	11	...	...
20 to 99 employees.....	15	8	...	...	...	1	...	...	1	1	...	...	...	...	...	1	...	...	3	...	...
100 employees and over.....	5	2	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...	...	1	...	...
St. Tammany:																					
1 to 19 employees.....	34	9	...	...	...	12	...	...	3	1	...	...	...	3	...	...	...	...	5	...	1
20 to 99 employees.....	6	...	...	...	...	4	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	3	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	2	...	...
Tangipahoa:																					
1 to 19 employees.....	45	18	...	...	2	15	1	...	4	...	...	...	...	3	...	...	1	...	...	...	1
20 to 99 employees.....	17	3	...	...	1	10	...	1	...	...	...	...	...	1	...	...	1	...	...	...	...
100 employees and over.....	5	1	...	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tensas:																					
1 to 19 employees.....	5	1	...	...	...	3	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	3	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Terrebonne:																					
1 to 19 employees.....	39	21	...	...	...	1	1	...	3	...	...	...	...	1	...	4	2	...	5	...	1
20 to 99 employees.....	10	7	...	...	...	...	...	...	1	...	...	...	...	...	...	1	1	...	...	...	...
100 employees and over.....	6	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Union:																					
1 to 19 employees.....	37	2	...	...	...	32	...	...	2	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	4	...	...	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Vermillion:																					
1 to 19 employees.....	20	10	...	...	...	...	...	...	2	1	...	...	...	1	...	1	1	...	4	...	...
20 to 99 employees.....	10	7	...	...	1	1	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
100 employees and over.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Vernon:																					
1 to 19 employees.....	14	2	...	...	...	11	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	4	...	...	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Washington:																					
1 to 19 employees.....	25	6	...	...	...	5	1	...	3	5	...	...	...	2	1	1	1	...	...	...	...
20 to 99 employees.....	10	2	...	...	...	6	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	5	...	...	...	1	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...
Webster:																					
1 to 19 employees.....	34	2	...	...	...	21	2	1	4	1	...	...	...	2	...	1	...	...	...	...	...
20 to 99 employees.....	11	3	...	...	1	4	...	...	...	1	...	...	...	...	...	...	...	...	2	...	...
100 employees and over.....	6	...	...	...	...	2	...	3	...	...	...	...	...	...	...	...	...	...	...	...	1
West Baton Rouge:																					
1 to 19 employees.....	2	...	...	...	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	3	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
West Carroll:																					
1 to 19 employees.....	10	...	...	...	...	8	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1
West Feliciana:																					
1 to 19 employees.....	4	1	...	...	...	2	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	3	1	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Winn:																					
1 to 19 employees.....	48	3	...	...	...	44	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	3	...	...	...	...	2	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...





[illegible]

# MAINE (16 COUNTIES)



## MANUFACTURES—AREA STATISTICS

Table 1.—MANUFACTURING EMPLOYMENT AT OPERATING ESTABLISHMENTS AND CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARIES FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS

(This table includes data for all manufacturing employees including those located in central administrative offices and auxiliaries. Tables 2-7 in this report include data for operating establishments only. For explanation of column captions see Introduction)

State, standard metropolitan areas, and year <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	(Number)	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
Maine:						
1954.....	104,507	325,048	104,025	322,158	482	2,890
1953 <sup>2</sup> .....	110,187	354,377	109,351	350,777	836	3,600
1952 <sup>2</sup> .....	108,321	323,033	107,590	320,517	<sup>3</sup> 731	<sup>3</sup> 2,516
1951 <sup>2</sup> .....	107,402	307,960	106,671	305,444	731	2,516
1950 <sup>2</sup> .....	108,309	281,757	108,050	280,357	259	1,400
1949 <sup>2</sup> .....	102,134	258,557	101,458	256,185	676	2,372
1954						
Standard metropolitan area:						
Portland <sup>4</sup> .....	13,161	45,884	13,125	45,626	36	258

<sup>1</sup>Employment data for administrative offices and auxiliaries on a State basis are not available for the years prior to 1949. Similar data for standard metropolitan areas are available only for 1954.<sup>2</sup>The employment figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period. The employment figures for administrative and auxiliary units were compiled chiefly from Bureau of Old-Age and Survivors Insurance records and are not strictly comparable with the figures for these units that were collected by the Bureau of the Census for the year 1954.<sup>3</sup>The 1951 data are shown for 1952 since auxiliary and administrative unit data were not collected in 1952.<sup>4</sup>The Portland Standard Metropolitan Area consists of Portland, South Portland, and Westbrook cities; Cape Elizabeth and Falmouth towns in Cumberland County, Maine.



Table 2.—GENERAL STATISTICS FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Year	Establishments, number	All employees		Production workers		Value added by manufacture (\$1,000)	
		Number	Payroll (\$1,000)	Number	Wages (\$1,000)		
		MAINE					
1954 <sup>1</sup> .....	3,015	{	104,025	322,158	91,092	260,047	565,260
1953 <sup>2</sup> .....			109,351	350,777	96,733	288,390	583,855
1952 <sup>2</sup> .....			107,590	320,517	96,268	268,621	525,514
1951 <sup>2</sup> .....			106,671	305,444	95,753	255,732	520,998
1950 <sup>2</sup> .....			108,050	280,357	95,202	229,006	454,278
1949 <sup>2</sup> .....	1,633	{	101,458	256,185	90,693	209,563	407,121
1947.....			100,118	233,851	90,323	199,085	429,540
1939.....			82,184	83,479	74,040	67,340	150,588
1937.....			81,896	85,715	75,464	72,263	151,111
1935.....			74,670	70,168	68,603	58,027	117,216
1933.....	995	(NA)	(NA)	59,518	45,867	103,913	
1931.....	1,235	(NA)	(NA)	56,308	55,187	117,213	
1929.....	1,568	76,799	90,300	70,159	74,200	174,385	
1927.....	1,426	(NA)	(NA)	68,142	74,212	163,228	
1925.....	1,500	(NA)	(NA)	73,849	79,777	166,141	
1923.....	1,642	(NA)	(NA)	83,328	91,854	185,580	
1921.....	1,761	(NA)	(NA)	75,710	83,429	147,459	
1919.....	2,834	96,082	111,203	88,251	93,761	201,444	
1914.....	3,293	87,155	50,338	81,910	43,085	82,475	
1909.....	3,546	84,815	43,429	79,955	37,632	78,928	
1904.....	3,145	78,730	36,681	74,958	32,692	63,978	
1899.....	2,878	73,017	28,781	69,914	25,731	51,749	
		STANDARD METROPOLITAN AREA (None with 40,000 or more manufacturing employees in this State)					

NA Not available.

<sup>1</sup>The 1954 figures include data for establishments engaged in the processing and distribution of fluid milk, Industry Group 202, Dairy Products. These establishments were not included in the figures for the Annual Survey years 1949-1953 or earlier Census years. In addition, the 1954 Census and Annual Survey years include data for Logging camps and contractors, Industry 2411, which were not included within the scope of the 1947 Census. See footnotes to Table 4 for comparable 1954 and 1947 totals. There were also a number of changes in the definition of manufacturing industries during earlier Census years that affect the comparability of the historical series. Among the more important of these were: figures for 1935 and later years excluded data for "Railroad repair shops" and "Manufactured gas" which were included in 1899-1933 figures; the minimum size of establishment included for 1954 and 1947 was one employee, for 1939-1921 manufacturing establishments reporting value of shipments of \$5,000 or more were within scope whereas for 1919 and earlier years the cutoff was \$500. (This change in procedure has not appreciably affected the comparability of the historical data except for the figures on number of establishments.)

<sup>2</sup>The employment and payroll figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period.

## MANUFACTURES—AREA STATISTICS

Table 3.--GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
Maine, total.....	913,774	3,015	104,025	322,158	91,092	180,691	260,047	565,260	58,935	(1)	(1)
STANDARD METROPOLITAN AREAS											
Portland.....	119,942	208	13,125	45,626	10,886	22,196	34,044	87,386	3,218	(NA)	(NA)
COUNTIES											
Androscoggin.....	83,594	247	15,240	43,194	13,740	25,348	35,697	71,728	2,602	16,717	76,536
Aroostook.....	96,039	203	3,028	8,831	2,594	5,423	7,382	21,479	3,097	1,897	11,730
Cumberland.....	169,201	358	16,313	54,570	13,761	27,718	41,454	99,252	3,974	13,943	64,171
Franklin.....	20,682	159	3,438	10,004	3,122	6,376	8,644	15,037	1,471	3,878	14,329
Hancock.....	32,105	137	2,155	7,016	1,904	3,968	5,888	12,906	862	1,892	6,746
Kennebec.....	83,881	176	11,136	33,533	9,833	19,421	27,646	58,676	6,468	11,129	51,566
Knox.....	28,121	112	2,688	7,560	2,386	4,442	6,098	14,175	808	2,196	7,745
Lincoln.....	18,004	68	800	2,183	676	1,345	1,726	4,203	279	478	1,217
Oxford.....	44,221	269	7,524	25,399	6,526	13,907	20,210	38,940	3,602	7,219	26,481
Penobscot.....	108,198	373	12,040	39,640	10,495	22,140	32,065	72,119	29,642	9,440	47,314
Piscataquis.....	18,617	138	2,032	5,176	1,866	3,790	4,585	7,414	339	1,634	4,844
Sagadahoc.....	20,911	39	3,947	15,271	3,427	6,398	12,457	31,881	957	4,157	8,792
Somerset.....	39,785	229	6,037	16,417	5,550	11,044	14,232	24,911	1,317	4,513	15,201
Waldo.....	21,687	103	1,595	3,927	1,399	2,749	3,047	8,169	309	1,261	4,269
Washington.....	35,187	179	3,036	8,172	2,706	5,166	6,708	18,138	1,923	3,103	15,788
York.....	93,541	225	13,007	41,258	11,100	21,448	32,200	66,227	1,276	16,661	72,811
CITIES WITH 10,000 INHAB- ITANTS OR MORE											
Auburn.....	23,134	107	5,786	15,323	5,171	8,940	11,873	22,956	503	5,125	17,207
Augusta.....	20,913	34	3,196	9,546	2,902	5,715	8,224	16,703	817	2,948	13,355
Bangor.....	31,558	55	1,980	5,492	1,650	2,916	4,009	8,964	404	1,431	5,598
Bath.....	10,644	11	3,148	12,724	2,711	5,064	10,357	26,398	693	3,610	6,028
Biddeford.....	20,836	31	4,815	16,218	3,903	7,361	12,254	22,680	529	7,608	(D)
Lewiston.....	40,974	79	7,167	21,126	6,471	12,317	17,963	36,198	1,305	9,286	46,319
Portland.....	77,634	149	7,174	22,974	5,603	10,738	15,468	43,413	2,007	6,599	32,075
Saco.....	10,324	22	2,384	7,357	2,169	4,325	6,216	12,131	234	(NA)	(NA)
South Portland.....	21,866	28	1,806	7,300	1,573	3,546	5,782	10,616	375	545	1,743
Waterville.....	18,287	25	2,636	8,028	2,226	4,296	6,114	15,173	1,057	2,688	12,681
Westbrook.....	12,284	27	4,126	15,305	3,694	7,882	12,754	33,294	832	3,482	18,865

D Withheld to avoid disclosing figures for individual companies.

NA Not available

<sup>1</sup>The 1947 data are not strictly comparable with the figures shown for 1954 due to differences in coverage of loggers and fluid milk distributors.  
See discussion in Introduction and footnotes to Table 4.

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establish- ments, number		All employees		Production workers			Value added by manufacture	Value of shipments	Capital expendi- tures, new	All employees, number	Value added by manufacture
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
	All industries, total <sup>1</sup> ...	3,015	627	104,025	322,158	91,092	180,691	260,047	565,260	( <sup>2</sup> )	58,935	( <sup>3</sup> )	( <sup>3</sup> )
20	Food and kindred products..	403	135	10,955	30,302	8,691	16,644	20,763	62,237	( <sup>2</sup> )	3,410	( <sup>3</sup> )	( <sup>3</sup> )
201	Meat products.....	42	17	1,112	2,987	943	1,934	2,275	7,396	( <sup>2</sup> )	203	434	2,005
2013	Prepared meats.....	7	4	140	493	93	211	311	1,009	( <sup>2</sup> )	23	199	975
2015	Poultry dressing plants.....	21	11	875	2,164	771	1,546	1,728	5,840	36,883	148	34	(D)
202	Dairy products.....	111	17	1,386	4,509	741	1,552	2,062	9,439	( <sup>2</sup> )	949	( <sup>3</sup> )	( <sup>3</sup> )
2024	Ice cream and ices.....	11	4	289	975	151	309	398	2,348	6,039	106	( <sup>3</sup> )	( <sup>3</sup> )
2026	Fluid milk.....	47		211	503	159	308	403	957	3,271	167	( <sup>3</sup> )	( <sup>3</sup> )
2027	Fluid milk and other products..	45	11	755	2,631	327	713	957	4,882	14,769	492	( <sup>3</sup> )	( <sup>3</sup> )
203	Canned and frozen foods.....	93	63	4,527	10,828	4,164	7,264	9,025	16,852	( <sup>2</sup> )	698	5,357	24,688
2031	Canned seafood.....	42	38	2,506	5,458	2,375	4,060	4,781	8,813	21,067	267	2,646	15,272
2033	Canned fruits and vegetables...	30	16	1,392	3,443	1,213	2,219	2,513	5,991	17,144	359	1,837	7,042
204	Grain milk products.....	9	5	242	799	200	416	550	3,926	...	108	61	(D)
2042	Prepared animal feeds.....	9	5	242	799	200	416	550	3,926	8,819	108	61	(D)
205	Bakery products.....	57	17	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2051	Bread and related products.....	56	16	2,036	6,651	1,372	2,798	3,779	14,157	27,136	838	189	(D)
208	Beverages.....	45	7	424	1,257	236	486	565	2,690	( <sup>2</sup> )	98	483	2,066
209	Miscellaneous foods.....	37	9	1,117	2,937	943	2,046	2,231	7,073	( <sup>2</sup> )	500	293	1,999
2099	Food preparations, n.e.c.....	14	7	899	2,277	778	1,671	1,775	5,627	12,844	393	(D)	(D)
22	Textile mill products.....	73	56	19,241	59,793	17,645	34,940	51,456	92,854	( <sup>2</sup> )	2,350	25,810	116,512
221	Woolen and worsted manufac- ture.....	38	31	5,345	17,128	4,930	9,990	14,811	22,080	( <sup>2</sup> )	75	11,889	54,689
2213	Woolen and worsted fabrics.....	28	24	4,754	15,519	4,364	8,862	13,329	19,541	60,989	650	11,345	(D)
223	Broad-woven fabrics.....	13	13	12,599	38,833	11,497	22,457	33,250	62,057	( <sup>2</sup> )	1,156	12,378	55,088
2233	Cotton broad-woven fabrics.....	7	7	8,963	26,343	8,366	16,322	23,568	40,343	83,095	1,063	10,418	(D)
2234	Synthetic broad-woven fabrics..	6	6	3,636	12,490	3,131	6,135	9,682	21,714	47,138	92	(D)	(D)
229	Miscellaneous textile goods...	11	7	420	1,213	383	829	1,046	2,306	( <sup>2</sup> )	279	(D)	(D)
2294	Processed textile waste.....	4	4	275	751	257	566	691	1,574	6,959	(D)	137	(D)
23	Apparel and related pro- ducts.....	53	24	2,922	7,254	2,661	4,834	5,829	13,226	( <sup>2</sup> )	139	3,538	18,063
232	Men's and boys' furnishings...	17	10	1,319	3,244	1,210	2,161	2,482	5,620	( <sup>2</sup> )	43	1,000	3,571
2327	Separate trousers.....	5	3	189	388	177	310	325	478	606	4	216	(D)
233	Women's and misses' outerwear	5	5	275	470	260	438	406	538	( <sup>2</sup> )	4	103	147
236	Children's outerwear.....	7	4	281	480	260	511	513	833	( <sup>2</sup> )	4	(D)	(D)
24	Lumber and wood products...	1,829	176	17,622	42,672	16,019	32,435	37,278	63,470	( <sup>2</sup> )	5,217	( <sup>3</sup> )	( <sup>3</sup> )
2411	Logging camps and contractors	1,152	47	6,587	15,645	5,845	11,758	13,789	23,415	45,299	2,458	( <sup>3</sup> )	( <sup>3</sup> )
242	Lumber basic products.....	513	61	4,354	10,144	3,984	7,920	8,893	15,309	( <sup>2</sup> )	1,519	4,993	15,727
2421	Sawmills and planing mills.....	505	60	4,293	10,065	3,931	7,823	8,821	15,110	32,318	1,494	4,974	(D)
243	Millwork and related products	28	8	934	3,005	860	2,012	2,577	4,342	( <sup>2</sup> )	383	503	1,786
244	Wooden containers.....	29	8	645	1,602	598	1,204	1,400	2,370	( <sup>2</sup> )	95	1,639	5,516
2444	Wooden boxes.....	15	8	582	1,483	537	1,090	1,289	2,134	4,898	85	1,556	5,372
249	Miscellaneous wood products..	107	52	5,099	12,274	4,731	9,539	10,617	18,033	( <sup>2</sup> )	761	5,117	13,944
25	Furniture and fixtures.....	35	9	724	1,862	648	1,351	1,513	2,985	( <sup>2</sup> )	152	655	2,207
251	Household furniture.....	24	7	599	1,551	544	1,156	1,270	2,305	( <sup>2</sup> )	135	260	755
2511	Wood furniture, not upholstered	9	5	489	1,212	451	982	1,035	1,757	2,796	86	180	517
2541	Partitions and fixtures.....	5	2	104	257	86	160	199	607	1,015	10		
26	Pulp, paper and products...	61	51	17,398	71,628	15,009	33,283	58,667	150,690	( <sup>2</sup> )	42,083	16,544	103,156
261	Pulp, paper and board.....	40	40	15,817	66,550	13,678	30,712	54,696	138,356	( <sup>2</sup> )	40,615	14,387	88,143
2611	Pulp mills.....	20	20	4,536	18,894	3,975	9,164	15,953	39,564	106,546	17,859	4,966	27,103
267	Paperboard containers.....	13	4	370	938	312	599	702	1,821	( <sup>2</sup> )	152	125	357
269	Pulp, paper and products, n.e.c.....	4	4	1,027	3,478	855	1,646	2,721	9,466	( <sup>2</sup> )	1,298	(D)	(D)
27	Printing and publishing....	138	15	1,943	6,740	1,205	2,325	3,944	11,751	( <sup>2</sup> )	535	1,867	8,743
2711	Newspapers.....	48	11	1,443	5,308	823	1,567	2,884	9,452	12,108	389	1,364	6,892
2751	Commercial printing.....	57	1	278	793	222	450	593	1,333	2,286	107	289	986
28	Chemicals and products.....	38	9	576	1,885	440	1,011	1,275	4,893	( <sup>2</sup> )	331	695	5,336
287	Fertilizers.....	14	5	259	860	187	430	517	2,333	( <sup>2</sup> )	98	362	2,262
288	Vegetable and animal oils....	8	3	142	448	124	294	391	936	( <sup>2</sup> )	59	121	951
29	Petroleum and coal products	2	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5	(D)
30	Rubber products.....	6	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	195	452
31	Leather and leather goods..	115	84	19,754	51,614	18,050	32,453	41,889	78,431	( <sup>2</sup> )	1,359	15,714	47,979
3131	Footwear cut stock.....	27	15	1,176	3,148	1,047	1,961	2,374	4,270	8,979	261	809	(D)
314	Footwear, except rubber.....	78	63	17,983	46,526	16,462	29,353	37,929	71,195	( <sup>2</sup> )	930	14,221	42,476
3141	Footwear, except rubber.....	73	62	17,951	46,454	16,434	29,294	37,871	71,108	134,900	930	14,221	42,476

See footnotes at end of table.



## MANUFACTURES—AREA STATISTICS

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954										1947	
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
32	Stone, clay, and glass products.....	37	8	786	2,672	646	1,340	2,066	6,389	( <sup>2</sup> )	554	577	2,590
325	Structural clay products....	8	1	111	281	88	179	206	481	618	34	(D)	(D)
3251	Brick and hollow tile.....	8	1	111	281	88	179	206	481	618	34	(D)	(D)
327	Concrete and plaster products	14	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3271	Concrete products.....	13	2	122	369	87	205	230	647	1,320	41	(D)	(D)
3281	Cut-stone and stone products...	9	3	197	699	180	345	611	1,093	1,330	40	102	398
33	Primary metal industries...	14	4	286	932	232	464	651	2,011	( <sup>2</sup> )	332	409	1,458
34	Fabricated metal products..	45	16	2,450	9,388	2,073	4,226	7,169	15,939	( <sup>2</sup> )	(D)	1,891	7,439
342	Cutlery, tools, and hardware.	17	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	587	2,355
3422	Edge tools.....	9	3	170	526	139	265	389	709	997	12	200	605
344	Structural metal products....	20	7	1,409	5,453	1,217	2,636	4,218	8,435	( <sup>2</sup> )	193	(D)	(D)
3441	Structural ornamental work....	5	3	269	1,442	198	496	849	2,187	5,471	144	50	(D)
3442	Metal doors, sash and trim....	5	1	361	938	308	632	721	1,419	2,617	40	(D)	(D)
3443	Boiler shop products.....	5	2	741	2,951	683	1,450	2,562	4,545	10,828	7	(D)	(D)
35	Machinery, except electrical.....	45	11	3,556	13,825	2,745	5,461	10,109	17,445	( <sup>2</sup> )	513	6,443	26,728
354	Metalworking machinery.....	8	3	915	3,786	815	1,783	3,151	3,728	( <sup>2</sup> )	49	(D)	(D)
36	Electrical machinery.....	6	5	763	2,872	620	1,331	2,113	7,662	( <sup>2</sup> )	106	(D)	(D)
37	Transportation equipment.....	72	15	3,758	14,478	3,283	6,429	12,008	27,474	( <sup>2</sup> )	955	3,492	5,600
373	Ships and boats.....	66	13	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3732	Boat building and repairing....	55	6	683	1,968	599	1,249	1,695	2,406	3,813	66	752	(D)
38	Instruments and related products.....	4	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
39	Miscellaneous manufactures <sup>4</sup> ....	39	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1,286	3,443
394	Toys and sporting goods.....	16	4	259	545	231	439	446	789	( <sup>2</sup> )	39	410	1,021

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industries (4-digit) and industry groups (3-digit) are not shown. Industries and industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "all industries" line.<sup>2</sup>The total value of shipments figures for industry groups and a few individual industries have not been published due to the extensive and unmeasurable duplication arising from shipments from one establishment to another in the same industry classification. (See Introduction.)<sup>3</sup>Comparable data are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude establishments in S.I.C. Industry 2411, Logging Camps and Contractors, which are included in the scope of the 1954 Census; the 1947 Census also excludes plants processing and distributing fluid milk which in 1954 were classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	All industries except subgroups 202 and 2411, total.....	96,052	532,406	99,962	427,131
20	Food and kindred products except subgroup 202, Dairy products.....	9,569	52,798	8,500	40,000
24	Lumber and wood products except Industry 2411, Logging camps and contractors.....	11,035	40,055	12,252	36,973

<sup>4</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUPS: 1954 AND 1947  
(This State contained no standard metropolitan area with 40,000 or more manufacturing employees in 1954 or 1947)

Table 6.—GENERAL STATISTICS FOR PRINCIPAL INDUSTRIAL COUNTIES (THOSE WITH 20,000 OR MORE MANUFACTURING EMPLOYEES), BY MAJOR INDUSTRY GROUPS: 1954 AND 1947

(This State contained no county with 20,000 or more manufacturing employees in 1954 and 1947)

Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954

20 Food and kindred products	26 Pulp, paper and products	32 Stone, clay, and glass products	38 Instruments and related products
21 Tobacco manufactures	27 Printing and publishing	33 Primary metal industries	39 Miscellaneous manufactures (includes Group 19)
22 Textile mill products	28 Chemicals and products	34 Fabricated metal products	Ordinance and accessories)
23 Apparel and related products	29 Petroleum and coal products	35 Machinery, except electrical	
24 Lumber and wood products	30 Rubber products	36 Electrical machinery	
25 Furniture and fixtures	31 Leather and leather goods	37 Transportation equipment	

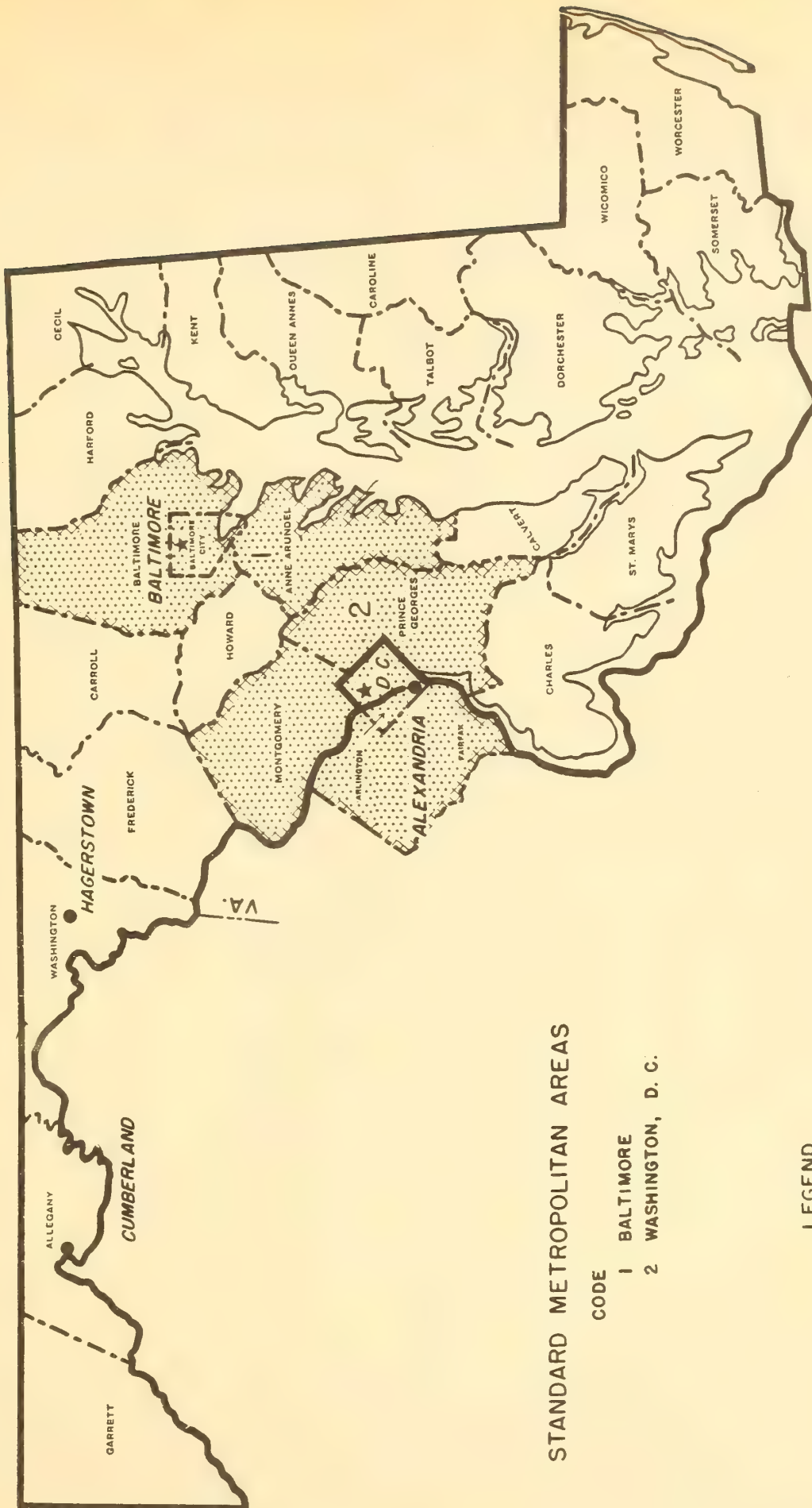
(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establish- ments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Maine Total.....	3,015	403	...	73	53	1829	35	61	138	38	2	6	115	37	14	45	45	6	72	4	39
1 to 4 employees.....	1,701	154	...	6	15	1292	19	1	74	9	2	1	16	16	4	14	20	...	37	3	18
5 to 9 employees.....	415	67	...	6	8	233	5	5	27	10	...	1	6	9	3	10	7	...	11	1	6
10 to 19 employees.....	271	47	...	5	6	127	2	4	22	10	...	3	9	4	3	5	7	1	9	...	7
20 to 49 employees.....	291	74	...	10	10	117	5	9	10	7	...	...	14	4	3	7	7	1	8	...	5
50 to 99 employees.....	131	42	...	12	6	33	3	7	...	2	...	1	15	3	...	2	1	1	1	...	2
100 to 249 employees.....	102	13	...	14	6	22	1	13	4	...	...	...	18	...	1	4	...	2	4	...	...
250 to 499 employees.....	71	5	...	11	1	4	...	12	1	...	...	...	30	1	...	2	2	1	1	...	...
500 to 999 employees.....	21	1	...	2	1	1	...	7	...	...	...	...	7	...	...	1	...	...	...	...	1
1,000 to 2,499 employees	11	...	...	7	...	...	...	2	...	...	...	...	...	...	...	...	1	...	1	...	...
2,500 employees and over	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
Androscoggin:																					
1 to 19 employees.....	173	38	...	3	5	70	6	3	9	3	...	2	13	3	1	7	5	...	...	1	4
20 to 99 employees.....	43	10	...	2	...	4	2	4	2	...	...	1	11	2	2	1	2	...	...	...	...
100 employees and over.....	31	...	...	9	1	...	...	2	1	...	...	...	17	...	1	...	...	...	...	...	...
Aroostook:																					
1 to 19 employees.....	177	29	...	...	1	126	...	...	8	8	...	...	...	1	...	...	4	...	...	...	...
20 to 99 employees.....	23	5	...	...	1	13	...	1	...	1	...	...	...	...	...	...	1	...	...	...	1
100 employees and over.....	3	2	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
Cumberland:																					
1 to 19 employees.....	254	32	...	3	9	96	11	4	39	5	2	2	6	10	2	7	6	1	10	2	7
20 to 99 employees.....	74	24	...	2	8	16	3	2	2	1	...	...	5	...	...	3	3	1	2	...	2
100 employees and over.....	30	8	...	2	...	2	...	3	2	...	...	...	5	...	...	6	1	...	1	...	...
Franklin:																					
1 to 19 employees.....	134	8	...	1	...	119	...	...	3	...	...	...	...	1	...	...	...	...	...	...	2
20 to 99 employees.....	18	1	...	...	1	13	...	1	1	...	...	...	1	...	...	...	...	...	...	...	...
100 employees and over.....	7	...	...	1	...	2	...	2	...	...	...	...	2	...	...	...	...	...	...	...	...
Hancock:																					
1 to 19 employees.....	115	12	...	...	...	86	...	...	5	...	...	...	1	3	...	...	...	...	8	...	...
20 to 99 employees.....	19	8	...	1	...	5	...	...	...	...	...	...	...	1	...	1	...	...	3	...	...
100 employees and over.....	3	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	1	...	...
Kennebec:																					
1 to 19 employees.....	133	28	...	...	1	75	1	1	7	1	...	...	2	...	2	5	4	...	4	...	2
20 to 99 employees.....	15	5	...	1	...	5	...	2	...	...	...	...	1	...	...	1	...	...	...	...	...
100 employees and over.....	28	3	...	8	3	1	...	7	1	...	...	...	5	...	...	...	...	...	...	...	...
Knox:																					
1 to 19 employees.....	82	14	...	1	3	42	...	...	4	...	...	...	1	1	...	2	3	...	11	...	...
20 to 99 employees.....	24	8	...	2	3	...	...	...	1	3	...	...	...	2	...	1	...	1	2	...	1
100 employees and over.....	6	3	...	1	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Lincoln:																					
1 to 19 employees.....	59	3	...	2	1	42	...	...	3	...	...	...	...	...	...	1	1	...	6	...	...
20 to 99 employees.....	6	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1
100 employees and over.....	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	2	...	...
Oxford:																					
1 to 19 employees.....	219	7	...	...	...	194	1	...	6	1	...	...	...	2	...	...	3	...	1	...	4
20 to 99 employees.....	35	4	...	...	...	28	...	...	...	...	...	...	1	...	...	...	1	...	...	...	1
100 employees and over.....	15	...	...	1	...	5	1	4	...	...	...	...	4	...	...	...	...	...	...	...	...
Penobscot:																					
1 to 19 employees.....	302	29	...	4	4	222	3	...	16	2	...	1	3	4	4	2	2	...	2	...	4
20 to 99 employees.....	41	12	...	4	...	15	1	1	...	...	...	...	4	1	1	...	...	...	1	...	1
100 employees and over.....	30	1	...	4	...	6	...	9	1	...	...	...	7	...	...	...	1	...	1	...	...
Piscataquis:																					
1 to 19 employees.....	121	2	...	1	2	112	...	...	3	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	12	...	...	1	...	10	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	5	...	...	1	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sagadahoc:																					
1 to 19 employees.....	22	3	...	...	...	16	...	...	1	1	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	13	4	...	2	1	1	...	1	1	1	...	...	1	...	...	1	...	...	...	...	...
100 employees and over.....	4	...	...	...	1	...	...	1	...	...	...	...	...	...	...	...	1	1	...	...	...
Somerset:																					
1 to 19 employees.....	185	11	...	1	...	160	...	...	4	1	...	...	1	...	...	1	...	...	2	...	4
20 to 99 employees.....	28	1	...	3	...	20	...	2	...	...	...	...	2	...	...	...	...	...	...	...	...
100 employees and over.....	16	1	...	3	...	5	...	2	...	...	...	...	5	...	...	...	...	...	...	...	...
Waldo:																					
1 to 19 employees.....	84	6	...	...	1	66	...	...	4	1	...	...	1	1	...	...	...	...	4	...	...
20 to 99 employees.....	16	5	...	...	1	4	1	...	1	3	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	3	1	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...
Washington:																					
1 to 19 employees.....	142	18	...	...	...	110	...	...	3	4	...	...	...	...	...	1	...	...	4	...	2
20 to 99 employees.....	31	23	...	2	1	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	6	...	...	...	1	2	...	2	...	...	...	...	...	...	...	1	...	...	...	...	...
York:																					
1 to 19 employees.....	185	28	...	1	2	116	4	2	8	2	...	...	3	1	1	3	6	...	5	1	2
20 to 99 employees.....	24	2	...	2	...	11	...	2	2	...	...	...	3	...	...	1	1	...	...	...	...
100 employees and over.....	16	...	...	4	1	...	...	...	...	...	...	...	8	...	...	...	1	1	...	...	1





# MARYLAND (23 COUNTIES AND 1 INDEPENDENT CITY) AND DISTRICT OF COLUMBIA



## STANDARD METROPOLITAN AREAS

- CODE
- 1 BALTIMORE
  - 2 WASHINGTON, D. C.

## LEGEND

- PLACES OF 25,000 TO 100,000
- ★ PLACES OF 100,000 AND OVER
- ▨ STANDARD METROPOLITAN AREAS

## MANUFACTURES—AREA STATISTICS

Table 1.—MANUFACTURING EMPLOYMENT AT OPERATING ESTABLISHMENTS AND CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARIES FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS

(This table includes data for all manufacturing employees including those located in central administrative offices and auxiliaries. Tables 2-7 in this report include data for operating establishments only. For explanation of column captions see Introduction)

State, standard metropolitan areas, and year <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	(Number)	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
Maryland:						
1954.....	255,452	1,002,067	253,144	987,559	2,308	14,508
1953 <sup>2</sup> .....	261,948	1,014,618	259,303	1,001,510	2,645	13,108
1952 <sup>2</sup> .....	260,678	917,091	258,339	907,367	2,339	9,724
1951 <sup>2</sup> .....	250,404	851,382	248,065	841,658	2,339	9,724
1950 <sup>2</sup> .....	222,439	680,318	220,505	672,354	1,934	7,964
1949 <sup>2</sup> .....	210,981	618,006	209,577	612,450	1,404	5,556
1954						
Standard metropolitan areas						
Baltimore <sup>4</sup> .....	190,541	792,400	188,689	780,813	1,852	11,587
Washington, D. C. <sup>5</sup> .....	31,732	138,202	30,373	131,088	1,359	7,114

<sup>1</sup>Employment data for administrative offices and auxiliaries on a State basis are not available for the years prior to 1949. Similar data for standard metropolitan areas are available only for 1954.<sup>2</sup>The employment figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period. The employment figures for administrative and auxiliary units were compiled chiefly from Bureau of Old-Age and Survivors Insurance records and are not strictly comparable with the figures for these units that were collected by the Bureau of the Census for the year 1954.<sup>3</sup>The 1951 data are shown for 1952 since auxiliary and administrative unit data were not collected in 1952.<sup>4</sup>The Baltimore Standard Metropolitan Area consists of Baltimore City, Baltimore County, and Anne Arundel County, Maryland.<sup>5</sup>The Washington (D.C.) Standard Metropolitan Area consists of Montgomery and Prince Georges Counties in Maryland; the District of Columbia; Arlington and Fairfax Counties in Virginia, and Alexandria city and Falls Church city in Virginia.

Table 2.—GENERAL STATISTICS FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Year	Establish- ments, number	All employees		Production workers		Value added by manufacture (\$1,000)	
		Number	Payroll (\$1,000)	Number	Wages (\$1,000)		
MARYLAND							
1954 <sup>1</sup> .....	3,253	{	253,144	987,559	195,916	675,056	1,888,585
1953 <sup>2</sup> .....			259,303	1,001,510	205,621	719,048	1,854,582
1952 <sup>2</sup> .....			258,339	907,367	206,978	652,243	1,706,104
1951 <sup>2</sup> .....			248,065	841,658	200,199	609,380	1,603,006
1950 <sup>2</sup> .....			220,505	672,354	176,512	488,119	1,455,095
1949 <sup>2</sup> .....	{	(NA)	209,577	612,450	169,373	439,258	1,203,069
1947.....			228,655	612,296	188,696	458,282	1,139,240
1939.....			166,091	209,193	140,930	155,938	420,589
1937.....			164,368	197,782	145,932	156,995	430,836
1935.....			132,727	140,798	117,245	108,282	296,689
1933.....	2,476	(NA)	(NA)	100,236	82,563	240,333	
1931.....	2,851	(NA)	(NA)	107,951	107,985	304,189	
1929.....	3,231	150,906	195,013	131,099	148,835	422,097	
1927.....	3,205	(NA)	(NA)	126,700	141,903	379,290	
1925.....	3,184	(NA)	(NA)	125,787	138,591	357,660	
1923.....	3,168	(NA)	(NA)	128,826	136,286	334,411	
1921.....	3,128	(NA)	(NA)	107,085	110,485	250,705	
1919.....	4,725	159,362	188,223	139,241	146,578	322,092	
1914.....	4,779	126,264	71,725	111,490	53,734	138,645	
1909.....	4,837	120,113	59,053	107,921	45,436	116,620	
1904.....	3,852	102,798	44,988	94,174	36,144	93,352	
1899.....	3,886	100,911	39,260	94,170	32,414	81,722	
BALTIMORE STANDARD METROPOLITAN AREA							
1954 <sup>1</sup> .....	1,909	188,689	780,813	142,982	526,305	1,547,473	
1947.....	1,786	170,164	482,904	138,967	359,378	900,367	
1939.....	1,885	126,197	171,515	105,786	126,959	342,465	
1929.....	2,225	110,313	148,187	94,562	110,692	327,520	
1919.....	2,967	(NA)	(NA)	113,068	123,529	277,655	

NA Not available.

<sup>1</sup>The 1954 figures include data for establishments engaged in the processing and distribution of fluid milk, Industry Group 202, Dairy Products. These establishments were not included in the figures for the Annual Survey years 1949-1953 or earlier Census years. In addition, the 1954 Census and Annual Survey years include data for Logging camps and contractors, Industry 2411, which were not included within the scope of the 1947 Census. See footnotes to Table 4 for comparable 1954 and 1947 totals. There were also a number of changes in the definition of manufacturing industries during earlier Census years that affect the comparability of the historical series. Among the more important of these were: figures for 1935 and later years exclude data for "Railroad repair shops" and "Manufactured gas" which were included in 1899-1933 figures; the minimum size of establishment included for 1954 and 1947 was one employee, for 1939-1921 manufacturing establishments reporting value of shipments of \$5,000 or more were within scope whereas for 1919 and earlier years the cutoff was \$500. (This change in procedure has not appreciably affected the comparability of the historical data except for the figures on number of establishments.)<sup>2</sup>The employment and payroll figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period.

MARYLAND

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Table 3.--GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
Maryland, total.....	2,343,001	3,253	253,144	987,559	195,916	384,180	675,056	1,888,585	93,908	<sup>1</sup> 228,655	<sup>1</sup> 1,139,240
STANDARD METROPOLITAN AREAS											
Baltimore Area Total.....	1,337,373	1,909	188,689	780,813	142,982	282,284	526,305	1,547,473	75,174	170,164	900,367
Washington (D.C.) Area, Total	1,464,089	859	30,373	131,088	18,534	35,954	67,577	223,472	10,623	22,473	118,776
Portion in Maryland.....	358,583	248	7,400	30,637	4,998	9,974	17,010	48,472	2,999	3,030	12,841
Portion in District of Columbia.....	802,178	484	20,399	90,083	11,821	22,390	44,743	157,213	6,536	17,815	99,067
Portion in Virginia.....	303,328	127	2,574	10,368	1,715	3,590	5,824	17,787	1,088	1,628	6,868
COUNTIES											
Allegany.....	89,556	89	8,640	34,217	6,535	13,260	23,848	68,891	5,145	16,921	86,262
Anne Arundel.....	117,392	83	5,615	24,826	3,096	6,364	10,580	33,195	2,820	1,339	6,412
Baltimore City <sup>2</sup> .....	949,708	1,629	117,583	459,349	89,603	177,511	307,542	895,669	52,036	121,162	668,760
Baltimore.....	270,273	197	65,489	296,634	50,281	98,406	208,182	618,604	20,317	47,663	225,195
Calvert.....	12,100	10	274	645	256	457	567	1,142	58	154	455
Caroline.....	18,234	52	1,989	4,138	1,846	3,713	3,738	7,716	429	2,176	6,605
Carroll.....	44,907	80	4,946	14,324	4,212	8,037	10,461	24,837	1,078	4,144	17,601
Cecil.....	33,356	64	3,054	9,331	2,581	5,067	7,052	15,088	479	1,323	5,463
Charles.....	23,415	24	248	603	215	398	466	1,083	69	145	400
Dorchester.....	27,815	87	3,965	7,461	3,693	5,977	6,129	11,670	947	3,512	13,352
Frederick.....	62,287	82	3,976	10,599	3,475	6,810	8,513	17,630	916	3,962	12,130
Garrett.....	21,259	35	314	673	278	469	534	907	153	409	1,254
Harford.....	51,782	60	2,304	6,499	1,931	3,786	4,978	10,754	703	1,673	5,543
Howard.....	23,119	26	614	2,023	501	930	1,433	3,484	141	652	3,088
Kent.....	13,677	27	592	1,327	539	1,031	1,040	2,087	382	797	1,488
Montgomery.....	164,401	119	3,146	12,570	2,169	4,406	7,037	21,224	1,546	1,531	6,581
Prince Georges.....	194,182	129	4,254	18,067	2,829	5,568	9,973	27,248	1,453	1,499	6,260
Queen Annes.....	14,579	24	427	881	373	615	638	1,605	218	222	728
St. Mary's.....	29,111	32	368	1,074	343	681	870	1,558	346	164	366
Somerset.....	20,745	58	1,730	3,454	1,557	2,742	2,556	5,434	185	1,130	3,240
Talbot.....	19,428	56	1,338	2,732	1,203	2,057	2,173	4,053	273	995	3,185
Washington.....	78,886	131	14,637	57,632	11,695	23,160	42,417	78,279	1,943	10,469	46,320
Wicomico.....	39,641	99	5,508	13,751	4,748	9,024	10,348	24,313	1,274	4,506	13,129
Worcester.....	23,148	60	2,123	4,743	1,946	3,701	3,979	12,103	915	2,107	5,423
CITIES WITH 10,000 INHAB- ITANTS OR MORE											
Annapolis.....	10,047	29	598	2,212	419	832	1,274	2,849	242	220	1,100
Baltimore City.....	949,708	1,629	117,582	459,348	89,603	177,511	307,542	895,668	52,036	121,162	668,760
Cambridge.....	10,351	35	2,420	4,498	2,290	3,918	3,785	6,574	510	2,181	10,279
College Park.....	11,170	11	547	2,522	430	881	1,902	4,907	159	(NA)	(NA)
Cumberland.....	37,679	47	3,763	15,988	2,756	5,723	10,830	32,155	1,337	4,884	(D)
Frederick.....	18,142	36	2,861	7,836	2,498	4,922	6,318	11,967	458	2,816	8,596
Hagerstown.....	36,260	83	(D)	(D)	(D)	(D)	(D)	(D)	(D)	9,304	40,713
Hyattsville.....	12,308	12	98	284	71	151	180	415	25	(NA)	(NA)
Mt. Ranier.....	10,989	4	16	54	12	25	32	74	7	(NA)	(NA)
Salisbury.....	15,141	49	2,708	7,936	2,217	4,301	5,689	15,147	393	2,491	8,727

NOTE: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>The 1947 data are not strictly comparable with the figures shown for 1954 due to differences in coverage of loggers and fluid milk distributors.  
See Discussion in Introduction and footnotes to Table 4.

<sup>2</sup>Independent city.



## MANUFACTURES—AREA STATISTICS

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
	All industries, total <sup>1</sup> ...	3,253	1,279	253,144	987,559	195,916	384,180	675,056	1,888,585	( <sup>2</sup> )	93,839	<sup>3</sup> 228,655	<sup>3</sup> 1,139,240
20	Food and kindred products..	680	316	37,755	122,524	27,186	52,125	71,449	246,709	( <sup>2</sup> )	16,039	( <sup>4</sup> )	( <sup>4</sup> )
201	Meat products.....	83	31	7,066	23,740	5,699	11,121	16,416	37,796	( <sup>2</sup> )	3,599	5,383	20,574
2011	Meat packing, plants.....	36	12	3,491	13,434	2,567	4,760	8,503	17,172	( <sup>2</sup> )	2,391	2,760	11,781
2013	Prepared, meats.....	21	9	1,605	5,852	1,277	2,584	4,022	10,441	( <sup>2</sup> )	731	971	4,128
2015	Poultry dressing, plants.....	26	10	1,969	4,444	1,853	3,777	3,890	10,182	( <sup>2</sup> )	477	1,652	4,665
202	Dairy products.....	87	43	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2024	Ice cream and ices.....	26	10	775	2,768	421	1,001	1,250	7,539	( <sup>2</sup> )	498	( <sup>4</sup> )	( <sup>4</sup> )
2026	Fluid milk.....	7	3	156	500	107	199	291	843	( <sup>2</sup> )	62	( <sup>4</sup> )	( <sup>4</sup> )
2027	Fluid milk and other products..	44	26	3,388	13,855	1,326	3,002	4,262	22,722	( <sup>2</sup> )	1,844	( <sup>4</sup> )	( <sup>4</sup> )
203	Canned and frozen foods.....	203	112	9,953	19,992	8,852	14,750	14,540	29,259	( <sup>2</sup> )	2,255	9,801	30,338
2031	Canned seafood.....	9	3	219	494	205	328	454	732	( <sup>2</sup> )	(D)	648	1,364
2032	Cured fish.....	5	2	295	636	279	595	542	1,039	( <sup>2</sup> )	(D)	376	(D)
2033	Canned fruits and vegetables...	123	69	6,645	13,477	5,858	9,680	9,522	19,233	( <sup>2</sup> )	1,344	7,570	23,828
2035	Pickles and sauces.....	20	8	804	2,169	640	1,290	1,351	3,543	( <sup>2</sup> )	157	695	3,610
2036	Packaged seafood.....	40	26	1,619	2,398	1,522	2,196	1,969	3,636	( <sup>2</sup> )	191	489	940
2037	Frozen fruits and vegetables...	6	4	369	817	346	658	699	1,075	( <sup>2</sup> )	187		
204	Grain, mill products.....	39	15	1,073	3,856	753	1,732	2,460	11,897	( <sup>2</sup> )	785	1,164	10,681
2041	Flour and meal.....	10	2	307	1,258	222	558	903	7,297	( <sup>2</sup> )	164	483	6,996
2042	Prepared animal feeds.....	29	13	766	2,598	530	1,174	1,556	4,600	( <sup>2</sup> )	621	657	(D)
205	Bakery products.....	84	41	4,919	17,568	3,224	6,841	9,447	28,884	( <sup>2</sup> )	1,381	5,377	23,701
2051	Bread and related products....	80	38	4,207	15,625	2,699	5,852	8,264	26,439	( <sup>2</sup> )	1,301	4,398	19,531
2052	Biscuits and crackers.....	4	3	712	1,943	525	988	1,183	2,445	( <sup>2</sup> )	80	979	4,170
207	Candy and related products...	30	12	703	1,601	611	1,110	1,070	2,679	( <sup>2</sup> )	63	(D)	(D)
2071	Confectionery products.....	30	12	703	1,601	611	1,110	1,070	2,679	( <sup>2</sup> )	63	644	2,814
208	Beverages.....	69	36	5,574	23,047	3,243	6,316	12,537	52,615	( <sup>2</sup> )	3,573	6,602	63,098
2081	Bottled soft drinks.....	54	23	1,770	6,076	709	1,501	1,772	11,661	( <sup>2</sup> )	861	1,364	6,826
2082	Beer and ale.....	6	6	2,165	9,863	1,233	2,287	5,295	17,216	( <sup>2</sup> )	2,514	2,046	17,656
209	Miscellaneous foods.....	84	25	2,697	9,783	1,948	3,985	5,312	39,942	( <sup>2</sup> )	898	1,720	23,206
2095	Flavorings.....	11	2	241	1,143	154	319	535	14,517	( <sup>2</sup> )	96	215	(D)
2099	Food preparations, n.e.c.....	40	15	1,855	6,501	1,367	2,779	3,558	18,218	( <sup>2</sup> )	612	(D)	(D)
21	Tobacco manufactures.....	2	2	(D)	(D)	(D)	(D)	(D)	(D)	( <sup>2</sup> )	(D)	170	401
22	Textile mill products.....	49	24	4,135	11,785	3,641	7,298	9,836	18,537	( <sup>2</sup> )	594	6,168	24,517
223	Broad-woven fabrics.....	3	3	1,174	3,664	999	1,954	2,703	4,288	( <sup>2</sup> )	(D)	1,025	3,184
225	Knitting mills.....	18	7	(D)	(D)	(D)	(D)	(D)	(D)	( <sup>2</sup> )	(D)	(D)	(D)
2251	Full-fashioned hosiery mills...	8	4	321	1,002	294	592	874	1,161	( <sup>2</sup> )	14	630	(D)
229	Miscellaneous textile goods..	13	3	756	2,346	609	1,203	1,540	3,077	( <sup>2</sup> )	99	(D)	(D)
2294	Processed textile waste.....	7	1	318	1,013	218	445	452	1,259	( <sup>2</sup> )	34	(D)	(D)
23	Apparel and related products.....	383	220	24,043	62,736	21,195	38,288	47,757	105,151	( <sup>2</sup> )	1,485	23,627	94,866
231	Men's and boys' suits and coats.....	102	57	8,268	24,048	7,043	12,260	18,338	39,472	( <sup>2</sup> )	212	8,658	37,667
2311	Men's and boys' suits and coats	97	53	8,053	23,497	6,845	11,859	17,884	38,859	( <sup>2</sup> )	203	8,514	37,137
2312	Suit and coat findings.....	5	4	214	550	198	400	454	613	( <sup>2</sup> )	9	144	530
232	Men's and boys' furnishings...	116	77	7,078	15,653	6,437	11,700	12,504	27,091	( <sup>2</sup> )	494	9,079	34,248
2321	Men's dress shirts & nightwear.	28	24	3,743	8,222	3,403	6,302	6,636	15,149	( <sup>2</sup> )	330	4,861	20,594
2323	Men's and boys' neckwear.....	11	5	245	562	194	316	342	1,038	( <sup>2</sup> )	(D)	332	1,019
2325	Men's and boys' cloth hats....	6	3	159	303	150	274	270	451	( <sup>2</sup> )	3	58	(D)
2327	Separate trousers.....	40	22	1,691	4,129	1,530	2,735	3,204	6,763	( <sup>2</sup> )	114	1,640	6,323
2329	Men's and boys' clothing, n.e.c.	26	20	1,037	2,107	975	1,729	1,746	3,272	( <sup>2</sup> )	31	1,572	4,781
233	Women's and misses' outerwear	59	47	4,670	12,572	4,113	7,620	9,234	22,377	( <sup>2</sup> )	291	2,651	10,682
2331	Blouses.....	8	6	563	1,217	482	869	918	2,775	( <sup>2</sup> )	41	274	(D)
2333	Dresses, unit price.....	6	4	352	1,110	308	512	679	1,954	( <sup>2</sup> )	7	517	2,088
2334	Dresses, dozen price.....	19	16	1,609	3,984	1,477	2,921	3,153	6,275	( <sup>2</sup> )	119	680	1,804
2337	Women's suits, coats, & skirts.	20	15	1,608	4,392	1,460	2,559	3,470	7,915	( <sup>2</sup> )	67	983	4,836
2339	Women's outerwear, n.e.c.....	6	6	537	1,869	385	757	1,013	3,455	( <sup>2</sup> )	55	197	(D)
234	Women's undergarments.....	7	7	809	1,662	743	1,286	1,450	3,203	( <sup>2</sup> )	123	763	2,412
2351	Millinery.....	6	4	249	652	231	449	541	930	( <sup>2</sup> )	5	188	734
236	Children's outerwear.....	10	9	637	1,167	605	1,015	1,032	1,640	( <sup>2</sup> )	67	377	874
2361	Children's dresses.....	5	5	443	769	419	680	689	1,056	( <sup>2</sup> )	(D)	(D)	(D)
2369	Children's outerwear, n.e.c....	5	4	194	397	185	335	343	584	( <sup>2</sup> )	(D)	178	529
238	Miscellaneous apparel.....	5	2	188	484	174	342	390	554	( <sup>2</sup> )	19	272	686
239	Fabricated textiles, n.e.c....	75	17	(D)	(D)	(D)	(D)	(D)	(D)	( <sup>2</sup> )	(D)	(D)	(D)
2392	Housefurnishings, n.e.c.....	19	7	1,118	3,293	1,007	2,009	2,098	5,382	( <sup>2</sup> )	177	552	(D)
2393	Textile bags.....	7	3	164	538	108	228	292	761	( <sup>2</sup> )	5	120	615
2394	Canvas products.....	21	3	385	1,310	296	616	884	1,740	( <sup>2</sup> )	40	422	2,357
2399	Textile products, n.e.c.....	17	3	216	563	196	363	446	859	( <sup>2</sup> )	31	95	(D)

See footnotes at end of table.

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establish- ments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
24	Lumber and wood products...	367	59	4,854	12,980	4,340	8,405	9,795	21,180	( <sup>2</sup> )	1,252	( <sup>4</sup> )	( <sup>4</sup> )
2411	Logging camps and contractors	56	1	191	308	162	257	275	671	1,032	74	( <sup>4</sup> )	( <sup>4</sup> )
242	Lumber and basic products....	215	35	2,457	5,775	2,297	4,308	4,605	8,940	( <sup>2</sup> )	685	1,925	4,568
2421	Sawmills and planing mills.....	207	32	2,339	5,475	2,183	4,098	4,339	8,541	20,222	657	1,836	(D)
243	Millwork and related products	41	11	852	3,083	661	1,358	1,914	5,449	( <sup>2</sup> )	207	766	3,415
244	Wooden containers.....	31	7	841	2,194	764	1,601	1,799	3,053	( <sup>2</sup> )	114	991	3,269
2444	Wooden boxes.....	13	3	367	978	342	743	814	1,300	2,703	44	573	1,766
2445	Cooperage.....	10	2	210	660	184	353	549	1,100	2,548	(D)	305	(D)
249	Miscellaneous wood products..	24	5	511	1,619	454	879	1,200	3,066	( <sup>2</sup> )	171	457	1,651
2499	Wood products, n.e.c.....	18	3	327	1,072	295	567	796	1,752	4,004	49	237	939
25	Furniture and fixtures.....	120	44	4,299	14,017	3,512	6,856	9,677	22,696	( <sup>2</sup> )	706	2,653	9,871
251	Household furniture.....	67	29	2,020	6,720	1,636	3,193	4,283	11,500	( <sup>2</sup> )	172	1,911	6,834
2511	Wood furniture, not upholstered	18	6	611	2,420	458	965	1,401	3,773	7,296	82	710	2,369
2512	Upholstered household furniture	24	9	498	1,482	436	835	1,033	2,500	4,885	26	632	2,263
2515	Mattresses and bedsprings.....	10	6	400	1,352	320	621	811	2,772	6,206	35	404	1,354
2541	Partitions and fixtures.....	25	10	411	1,645	322	671	1,192	2,162	3,949	66	109	476
256	Screens, shades, and blinds..	21	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2563	Venetian blinds.....	7	4	1,692	5,094	1,402	2,699	3,834	8,233	19,474	(D)	403	(D)
26	Pulp, paper and products.....	61	44	7,642	28,854	6,324	13,478	21,333	53,569	( <sup>2</sup> )	5,242	5,537	25,332
261	Pulp, paper, and board.....	9	8	2,510	10,513	2,102	4,571	8,277	20,001	( <sup>2</sup> )	2,455	2,950	13,000
2651	Envelopes.....	4	4	245	994	199	415	645	1,857	3,762	69	116	722
267	Paperboard containers.....	28	22	3,540	12,913	2,939	6,323	9,352	21,931	( <sup>2</sup> )	1,280	2,027	9,962
269	Pulp, paper and products, n.e.c.....	14	7	1,167	3,777	934	1,866	2,653	8,304	( <sup>2</sup> )	1,232	231	627
2699	Paper and board products, n.e.c.	11	7	1,149	3,734	918	1,842	2,619	8,239	15,978	2,207	231	627
27	Printing and publishing....	380	93	10,719	45,333	7,240	14,473	27,823	74,194	( <sup>2</sup> )	3,189	9,904	54,241
2711	Newspapers.....	70	16	3,863	16,947	1,996	3,819	8,400	29,175	43,301	419	3,480	21,691
2721	Periodicals.....	13	3	252	876	6	12	20	1,357	2,672	(D)	211	1,181
273	Books.....	16	5	262	1,127	129	266	461	2,363	( <sup>2</sup> )	53	227	1,352
2731	Books, publishing and printing.	7	2	104	439	...	...	...	1,253	2,841	30	201	(D)
2732	Book printing.....	9	3	157	687	129	266	461	1,110	1,887	22	(D)	(D)
2751	Commercial printing.....	176	35	3,614	15,295	2,924	6,001	11,126	22,499	36,382	1,225	4,053	20,572
2761	Lithographing.....	46	16	1,314	5,663	1,058	2,117	4,108	10,823	19,372	1,314	848	4,100
278	Bookbinding and related in- dustries.....	15	7	803	2,492	692	1,370	1,735	3,821	( <sup>2</sup> )	73	627	2,068
2781	Bookbinding.....	8	5	396	1,106	352	669	913	1,844	2,406	55	147	509
279	Printing trade services.....	37	10	489	2,435	377	781	1,797	3,339	( <sup>2</sup> )	84	408	2,755
2791	Typesetting.....	16	4	216	1,026	180	383	802	1,482	1,706	37	172	888
2793	Photoengraving.....	13	4	164	889	114	221	660	1,226	1,484	31	142	1,366
28	Chemicals and products.....	184	89	12,724	52,007	8,973	18,345	32,085	146,634	( <sup>2</sup> )	8,978	18,133	142,559
281	Inorganic chemicals.....	14	10	2,348	9,587	1,742	3,748	6,537	22,027	( <sup>2</sup> )	1,324	717	4,955
282	Organic chemicals.....	11	6	2,773	11,899	1,999	4,059	7,631	24,716	( <sup>2</sup> )	2,220	(D)	(D)
2825	Synthetic fibers.....	3	3	2,366	10,007	1,687	3,375	6,346	22,477	34,892	2,049	(D)	(D)
283	Drugs and medicines.....	25	9	862	3,031	552	1,060	1,450	10,328	( <sup>2</sup> )	235	782	7,679
284	Soap and related products....	22	8	1,513	6,757	1,082	1,944	4,284	37,118	( <sup>2</sup> )	432	(D)	(D)
2841	Soap and glycerin.....	6	5	1,212	5,848	844	1,574	3,683	35,190	72,484	299	994	(D)
2842	Cleaning and polishing products	16	3	301	909	238	370	600	1,927	5,372	133	370	(D)
285	Paints and allied products...	29	15	1,749	7,588	1,189	2,543	4,346	21,443	( <sup>2</sup> )	2,867	1,687	12,942
287	Fertilizers.....	26	17	1,572	5,745	1,203	2,546	4,050	13,088	( <sup>2</sup> )	765	3,441	21,045
2871	Fertilizers.....	5	5	789	3,138	645	1,458	2,434	7,735	23,061	301	2,549	16,149
2872	Fertilizers, mixing only.....	21	12	782	2,606	557	1,087	1,616	5,353	19,442	463	892	4,896
288	Vegetable and animal oils....	12	5	255	981	190	404	599	1,993	( <sup>2</sup> )	202	239	2,146
2896	Compressed and liquefied gases.	11	6	330	1,125	189	395	619	1,815	3,170	(D)	301	1,937
2897	Insecticides and fungicides....	8	5	475	1,552	357	667	1,033	5,639	14,609	153	158	(D)
2899	Chemical products, n.e.c.....	15	3	347	1,842	204	443	717	3,731	9,454	312	359	3,494
29	Petroleum and coal products	19	10	3,414	16,671	2,531	4,998	11,439	34,268	( <sup>2</sup> )	16,599	2,422	18,157
2911	Petroleum refining.....	4	4	1,885	9,810	1,185	2,244	5,849	21,352	123,124	(D)	1,431	(D)
295	Paving and roofing materials..	11	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2951	Paving mixtures and blocks.....	8	3	287	1,334	259	561	995	2,550	6,972	171	26	(D)
30	Rubber products.....	17	13	6,280	22,941	5,069	10,618	16,843	43,150	( <sup>2</sup> )	1,793	5,727	27,088
3099	Rubber industries, n.e.c.....	13	9	1,893	5,818	1,573	3,280	4,143	9,064	17,442	658	1,563	(D)
31	Leather and leather goods..	29	18	2,623	7,224	2,335	4,523	5,547	10,163	( <sup>2</sup> )	173	3,298	10,422
314	Leather and leather goods....	14	13	2,122	5,555	1,901	3,681	4,251	7,615	( <sup>2</sup> )	74	2,697	7,643

See footnotes at end of table.



## MANUFACTURES—AREA STATISTICS

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
32	Stone, clay, and glass products.....	151	52	7,080	26,854	5,927	12,152	20,453	58,304	(2)	3,107	6,810	33,472
322	Pressed and blown glassware..	9	5	1,872	7,183	1,579	3,426	5,682	11,027	(2)	297	(D)	(D)
3231	Products of purchased glass..	11	1	180	493	159	287	402	1,055	1,790	27	266	1,086
325	Structural clay products.....	17	13	873	2,870	757	1,562	2,279	4,747	(2)	386	987	4,331
3251	Brick and hollow tile.....	13	10	624	2,040	542	1,211	1,595	3,561	5,032	289	612	2,652
3255	Clay refractories.....	4	3	249	830	214	350	683	1,185	2,028	97	375	1,679
327	Concrete and plaster products	85	22	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3271	Concrete products.....	79	19	1,082	3,803	876	1,813	2,375	7,617	14,875	635	866	3,935
3274	Lime.....	4	2	105	249	83	166	174	324	938	67	(D)	(D)
3281	Cut-stone and stone products..	9	3	169	679	105	208	312	516	1,010	7	162	634
329	Nonmetallic mineral products, n.e.c.....	16	5	1,291	4,965	1,157	2,105	4,164	16,640	(2)	1,075	870	6,235
3295	Minerals: ground or treated....	7	3	234	1,144	178	423	794	2,280	2,994	(D)	120	(D)
33	Primary metal industries....	46	27	32,042	146,212	27,047	53,068	116,940	339,630	(2)	8,648	31,306	158,832
331	Blast furnaces and steel mills.....	5	5	26,279	119,820	22,547	43,997	97,885	289,447	(2)	6,447	(D)	(D)
3312	Blast furnaces and steel mills..	5	5	26,279	119,820	22,547	43,997	97,885	289,447	(2)	6,447	22,436	(D)
332	Iron and steel foundries.....	14	11	986	3,421	878	1,720	2,779	5,441	(2)	146	1,399	6,104
335	Nonferrous rolling and drawing.....	4	4	1,970	8,968	1,506	3,159	6,369	18,478	(2)	430	(D)	(D)
339	Primary metal industries, n.e.c.....	10	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3392	Wire drawing.....	3	2	1,668	9,341	1,182	2,379	6,386	17,647	54,601	1,284	(D)	(D)
34	Fabricated metal products..	236	87	17,137	69,600	13,979	27,514	51,760	141,344	(2)	5,820	17,467	83,150
3411	Tin cans and other tinware...	9	9	4,516	19,416	3,952	8,255	16,225	34,053	94,608	1,352	4,948	24,187
343	Heating and plumbing equipment	12	4	1,719	7,056	1,499	2,930	6,104	19,548	(2)	937	3,308	14,434
344	Structural metal products....	118	41	3,334	14,281	2,295	4,621	8,391	24,713	(2)	1,023	3,029	16,314
3441	Structural and ornamental work.	47	16	1,530	6,791	1,063	2,092	3,900	12,105	25,221	394	584	3,487
3442	Metal doors, sash, and trim....	18	6	321	1,203	247	507	844	2,114	5,114	100	(D)	(D)
3443	Boiler shop products.....	12	7	541	2,378	416	870	1,601	3,678	7,389	151	1,570	(D)
3444	Sheet-metal work.....	41	12	942	3,908	567	1,150	2,045	6,816	12,812	377	841	4,155
346	Metal stamping and coating...	32	10	3,919	14,678	3,350	6,500	11,605	29,538	(2)	642	4,058	17,794
3463	Metal stamping.....	14	7	3,638	13,604	3,105	6,010	10,808	27,989	50,933	602	3,769	(D)
3468	Plating and polishing.....	12	1	110	418	93	187	294	795	992	16	102	388
348	Fabricated wire products.....	22	10	1,394	4,702	1,105	1,560	2,569	14,239	(2)	446	1,260	7,158
349	Metal products, n.e.c.....	27	12	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3495	Screw machine products.....	5	1	100	358	87	139	294	632	1,109	(D)	121	607
3499	Fabricated metal products,n.e.c.	16	6	536	1,946	444	929	1,551	7,623	13,627	217	109	(D)
35	Machinery, except electrical.....	187	60	11,421	48,231	8,182	16,655	30,464	76,078	(2)	4,061	10,418	44,269
352	Tractors and farm machinery..	5	2	129	347	91	180	251	648	(2)	70	(D)	(D)
354	Metalworking machinery.....	40	7	3,298	13,274	2,210	4,254	7,428	22,624	(2)	1,011	(D)	(D)
355	Special-industry machinery, n.e.c.....	35	16	3,381	14,833	2,472	5,060	10,034	23,857	(2)	443	2,543	11,652
3551	Food-products machinery.....	17	8	1,830	8,074	1,363	2,823	5,877	12,731	17,827	162	2,087	9,380
3559	Special-industry machinery, n.e.c.....	8	4	1,117	4,566	774	1,490	2,668	7,830	12,727	(D)	160	842
356	General industrial machinery.	21	8	839	3,727	617	1,270	2,277	5,820	(2)	(D)	1,563	7,548
358	Service and household machines.....	8	7	1,239	5,152	814	1,615	2,800	8,429	(2)	183	1,231	4,893
359	Miscellaneous machinery parts	72	15	1,914	7,693	1,483	3,232	5,454	10,467	(2)	894	2,319	7,971
3594	Industrial patterns and molds..	9	3	125	493	107	237	390	753	1,095	68	(D)	(D)
3599	Machine shops.....	63	12	1,789	7,199	1,376	2,995	5,063	9,714	13,162	826	2,107	6,793
36	Electrical machinery.....	56	26	12,929	57,242	8,230	16,122	31,316	100,909	(2)	2,772	9,047	34,812
361	Electrical industrial apparatus.....	19	8	1,441	5,117	1,133	2,306	3,399	8,619	(2)	115	(D)	(D)
3616	Electrical control apparatus...	8	4	864	2,754	694	1,446	1,862	4,121	6,197	51	735	(D)
366	Communication equipment.....	25	15	10,885	49,482	6,745	13,137	26,578	87,929	(2)	(D)	7,022	27,252
37	Transportation equipment...	103	34	41,262	194,574	31,097	61,454	133,130	324,047	(2)	10,101	32,630	150,823
371	Motor vehicles and equipment.	21	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3713	Truck and bus bodies.....	13	4	217	776	175	357	534	1,051	1,951	15	201	670
372	Aircraft and parts.....	9	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3721	Aircraft.....	4	4	27,017	125,599	19,997	38,865	83,872	195,529	307,623	(D)	16,184	(D)
38	Instruments and related products.....	39	6	1,592	6,709	1,071	2,121	4,042	9,952	(2)	424	978	3,680
3811	Scientific instruments.....	13	3	1,095	4,578	728	1,433	2,716	6,947	11,438	73	846	3,138
3821	Mech. measuring instruments..	12	3	409	1,834	280	561	1,122	2,449	3,955	342	89	(D)

See footnotes at end of table.



Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establish- ments, number		All employees		Production workers			Value added by manufacture	Value of shipments	Capital expendi- tures, new	All employees, number	Value added by manufacture
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
39	Miscellaneous manufactures <sup>5</sup>	144	55	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5,283	20,500
391	Jewelry and silverware.....	9	4	274	954	208	433	667	1,340	( <sup>2</sup> )	(D)	354	1,198
3914	Silverware and plated ware....	4	3	227	759	170	356	537	1,081	1,908	(D)	309	(D)
394	Toys and sporting goods.....	14	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3949	Sporting and athletic goods....	7	3	117	283	101	158	213	484	885	(D)	73	(D)
396	Costume jewelry and notions..	11	4	407	859	388	815	784	1,280	( <sup>2</sup> )	31	(D)	(D)
3963	Buttons.....	5	3	348	754	333	712	694	1,135	2,115	24	579	(D)
3971	Plastics products, n.e.c.....	18	7	1,450	5,486	1,134	2,362	3,532	8,552	18,946	1,178	779	4,008
398 399	} Miscellaneous manufactures <sup>5</sup> ..	82	31	8,067	30,820	5,441	10,592	16,117	46,487	( <sup>2</sup> )	1,459	2,589	10,764
3981		Brooms and brushes.....	14	7	1,121	3,347	940	1,731	2,294	5,329	11,154	155	1,276
3985	Fireworks and pyrotechnics.....	11	4	999	2,661	891	1,589	1,939	3,908	7,534	45	330	(D)
3993	Signs and advertising displays..	22	4	214	818	167	314	582	1,202	1,714	51	146	600
3999	Miscellaneous products, n.e.c..	10	1	195	555	171	349	396	875	2,113	49	179	556

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industries (4-digit) and industry groups (3-digit) are not shown. Industries and industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "all industries" line.

<sup>2</sup>The total value of shipments figures for industry groups and a few individual industries have not been published due to the extensive and unmeasurable duplication arising from shipments from one establishment to another in the same industry classification. (See Introduction.)

<sup>3</sup>The 1954 and 1947 "all industries" totals are not strictly comparable because of differences in scope between the two years in major groups 20 and 24 (see footnote 4).

<sup>4</sup>Comparable data for Major Groups 20 and 24 are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude establishments in S.I.C. Industry 2411, Logging Camps and Contractors, which are included in the scope of the 1954 Census; the 1947 Census also excludes plants processing and distributing fluid milk which in 1954 were classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
20	Food and kindred products except subgroup 202, Dairy products.....	33,000	214,000	32,000	181,000
24	Lumber and wood products except Industry 2411, Logging camps and contractors.....	4,663	20,509	4,139	12,903

<sup>5</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)

## MANUFACTURES—AREA STATISTICS

Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947  
(For explanation of column captions see Introduction)

Code	Industry group	Establish- ments, number	1954						1947		
			All employees		Production workers			Value added by manufacture	Capital expendi- tures, new	All employees, number	Value added by manufacture
			Number	Payroll (\$1,000)	Number	Man-hours ((1,000)	Wages (\$1,000)				
BALTIMORE STANDARD METROPOLITAN AREA (Consists of Baltimore City, Baltimore County and Anne Arundel County, Maryland)											
	All industries total <sup>1</sup> ...	1,909	188,689	780,813	142,982	282,284	526,305	1,547,473	75,174	<sup>2</sup> 170,164	<sup>2</sup> 900,367
20	Food and kindred products..	301	23,920	90,155	15,285	30,790	48,062	186,608	11,040	( <sup>3</sup> )	( <sup>3</sup> )
201	Meat products.....	53	4,928	18,712	3,719	7,081	12,053	27,080	3,091	3,537	14,028
202	Dairy products.....	29	3,285	13,651	1,141	2,695	3,688	24,562	1,516	( <sup>3</sup> )	( <sup>3</sup> )
203	Canned and frozen foods.....	36	2,957	7,989	2,335	4,446	4,715	11,039	443	2,875	9,509
204	Grainmill products.....	10	523	2,054	351	802	1,341	8,473	433	573	7,682
205	Bakery products.....	55	3,892	13,934	2,468	5,399	7,370	22,043	994	4,645	20,778
208	Beverages.....	32	4,680	19,720	2,735	5,258	10,997	45,500	2,984	5,636	54,253
209	Miscellaneous foods.....	57	1,745	7,475	1,117	2,312	3,481	34,659	536	1,356	21,894
21	Tobacco manufactures.....	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
22	Textile mill products.....	22	2,882	8,580	2,484	5,159	7,066	14,020	543	2,878	12,483
23	Apparel and related products.....	298	16,202	46,775	13,685	24,275	32,882	82,388	869	16,766	78,062
231	Men's & boys' suits & coats...	93	6,509	20,115	5,345	9,161	14,553	35,235	203	6,798	32,922
232	Men's & boys' furnishings...	79	3,688	9,359	3,171	5,594	6,559	16,372	157	5,471	26,012
233	Women's & misses' outerwear...	44	3,257	9,654	2,745	4,885	6,482	18,320	179	2,212	9,854
236	Children's outerwear.....	4	147	324	140	251	273	464	1	(D)	(D)
238	Miscellaneous apparel.....	5	188	484	174	342	390	554	19	(D)	(D)
239	Fabricated textiles, nec.....	62	1,815	5,454	1,583	3,067	3,502	8,406	234	(D)	(D)
24	Lumber and wood products...	89	1,798	5,746	1,598	3,205	4,237	8,974	335	1,456	5,554
242	Lumber and basic products....	32	505	1,651	474	912	1,196	2,488	125	(D)	(D)
243	Millwork & related products...	21	443	1,508	356	751	971	2,475	65	(D)	(D)
244	Wooden containers.....	18	535	1,548	489	1,015	1,282	2,238	87	682	2,449
249	Miscellaneous wood products...	13	299	993	266	509	758	1,702	48	169	898
25	Furniture and Fixtures	90	3,703	12,075	3,028	5,923	8,472	19,847	641	2,015	7,510
251	Household furniture.....	49	1,499	5,055	1,211	2,372	3,240	9,096	128	1,308	4,668
254	Partitions and fixtures.....	18	382	1,532	300	627	1,112	1,957	56	(D)	(D)
26	Pulp, paper and products...	51	5,486	20,100	4,532	9,642	14,449	38,353	3,071	2,878	14,793
265	Envelopes.....	4	245	994	199	415	645	1,857	69	(D)	(D)
269	Pulp, paper & products, nec...	14	1,167	3,777	934	1,866	2,653	8,304	1,232	(D)	(D)
27	Printing and publishing....	258	8,887	38,939	6,043	12,067	23,653	60,798	1,940	8,707	49,000
271	Newspapers.....	18	3,018	13,953	1,500	2,824	6,605	24,018	226	(D)	(D)
273	Books.....	12	249	1,093	129	266	461	2,254	51	(D)	(D)
275	Commercial printing.....	129	3,178	13,893	2,567	5,307	10,024	19,191	866	(D)	(D)
276	Lithographing.....	37	952	4,241	741	1,449	2,963	6,978	646	(D)	(D)
278	Bookbinding & related inds....	15	803	2,492	692	1,370	1,735	3,821	73	627	2,068
279	Printing trade services.....	31	452	2,280	350	732	1,670	3,065	61	(D)	(D)
28	Chemicals and products.....	137	9,531	39,481	6,693	13,803	24,074	116,965	5,985	9,477	92,644
281	Inorganic chemicals.....	11	2,178	8,870	1,592	3,421	5,938	19,423	1,065	(D)	(D)
284	Soap and related products....	17	1,478	6,602	1,058	1,908	4,204	36,885	426	(D)	(D)
285	Paints and allied products....	25	1,642	7,158	1,116	2,384	4,095	20,305	2,843	(D)	(D)
287	Fertilizers.....	13	1,370	5,184	1,053	2,263	3,735	11,850	543	3,127	19,865
288	Vegetables and animal oils....	7	192	731	143	291	464	1,466	72	159	1,493
289	Chemical products, nec.....	32	1,193	4,926	687	1,401	2,268	12,925	379	794	5,853
29	Petroleum and coal products	13	3,134	15,370	2,277	4,446	10,455	31,683	16,434	2,407	(D)
30	Rubber products.....	11	1,905	6,254	1,573	3,272	4,421	10,497	689	1,260	(D)
31	Leather and leather goods..	18	1,279	3,985	1,156	2,351	3,059	6,040	127	1,282	4,894
314	Footwear, except ruber.....	6	1,007	2,983	911	1,867	2,263	3,956	42	914	3,077
32	Stone, clay, & glass products.....	62	5,012	19,805	4,201	8,766	15,182	44,159	2,135	4,666	23,169
327	Pressed and blown glassware...	5	1,806	7,044	1,519	3,345	5,555	10,839	295	(D)	(D)
329	Concrete & plaster products...	26	776	3,200	631	1,447	2,131	8,637	210	360	2,066
	Nonmet mineral prod., nec.....	9	1,161	4,465	1,064	1,928	3,884	15,989	1,054	(D)	(D)
33	Primary metal industries.....	38	31,648	144,912	26,711	52,428	115,907	337,077	8,591	30,336	155,559
331	Blast furnaces & steel mills..	5	26,279	119,820	22,547	43,997	97,885	289,447	6,447	(D)	(D)
332	Iron and steel foundries.....	8	658	2,409	595	1,193	1,978	3,763	114	(D)	(D)
34	Fabricated metal products..	184	15,322	62,604	12,695	24,809	47,566	129,504	5,338	16,294	78,225
344	Structural metal products....	87	2,560	10,963	1,830	3,621	6,679	19,103	838	2,828	15,541
346	Metal stamping and coating....	27	3,716	13,921	3,195	6,189	11,129	28,341	611	(D)	(D)
349	Metal product, nec.....	22	1,741	7,749	1,372	2,757	5,743	15,937	1,231	(D)	(D)
35	Machinery, except electri- cal.....	146	7,776	33,753	5,692	11,922	22,265	51,589	3,304	8,254	34,499

See footnotes at end of table.

Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947  
(For explanation of column captions see Introduction)

Code	Industry group	Establishments, number	1954							1947	
			All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours ((1,000)	Wages (\$1,000)				
356	General industrial machinery..	17	705	3,217	529	1,093	2,007	5,042	(D)	(D)	(D)
359	Miscellaneous mach. parts.....	54	1,767	7,253	1,353	2,974	5,091	9,772	849	2,280	7,764
36	Electrical machinery.....	32	11,010	50,300	6,646	12,907	26,296	89,501	2,405	8,546	33,542
366	Communication equipment.....	9	9,665	44,509	5,755	11,167	23,033	79,492	(D)	6,747	26,634
37	Transportation equipment...	55	30,693	147,198	23,256	45,790	100,406	267,800	9,437	27,925	(D)
373	Ships and boats.....	39	7,482	38,632	5,903	12,140	27,975	56,676	1,404	(D)	(D)
38	Instruments and related prod.....	18	1,105	4,667	734	1,454	2,782	6,978	73	(D)	(D)
381	Scientific instruments.....	5	1,024	4,362	679	1,353	2,607	6,558	61	(D)	(D)
39	Miscellaneous manufactures <sup>4</sup>	85	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3,131	13,380
394	Toys and sporting goods.....	8	219	545	199	336	425	836	(D)	(D)	(D)
398 399	Miscellaneous manufactures <sup>4</sup> ...	50	5,745	24,058	3,415	6,665	11,140	35,075	1,077	1,720	7,418

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

NA Not available

<sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industry groups (3-digit) are not shown. Industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "All industries" line.

<sup>2</sup>The 1954 and 1947 "All industries" totals are not strictly comparable because of differences in scope between the two years in Major group 20 (See footnote 3).

<sup>3</sup>Comparable data for Major group 20 are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude plants processing and distributing fluid milk which in 1954 were classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1000)	All employees, number	Value added by manufacture (\$1000)
20	Food and kindred products except Sub-group 202, Dairy Products	20,635	162,046	20,500	138,000

<sup>4</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)



## MANUFACTURES—AREA STATISTICS

Table 6.—GENERAL STATISTICS FOR PRINCIPAL INDUSTRIAL COUNTIES, BY MAJOR INDUSTRY GROUP: 1954 AND 1947

(Principal industrial counties include all counties with 20,000 or more manufacturing employees. For explanation of column captions see Introduction)

Code	Major industry group	1954								1947	
		Establishments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
		BALTIMORE CITY <sup>4</sup>									
	All industries, total <sup>1</sup> .....	1,629	117,583	459,349	89,603	177,511	307,542	895,669	52,036	<sup>2</sup> 121,162	<sup>2</sup> 668,760
20	Food and kindred products....	264	21,504	80,470	13,461	27,127	41,004	154,853	10,577	19,001	(D)
23	Apparel and related products.	288	15,999	46,117	13,500	23,951	32,305	81,467	846	16,683	77,630
24	Lumber and wood products.....	50	1,253	4,113	1,109	2,264	2,996	6,509	155	1,119	4,140
25	Furniture and fixtures.....	84	3,454	11,023	2,851	5,533	7,871	18,258	591	1,975	7,449
26	Pulp, paper and products.....	44	4,831	17,150	3,987	8,409	12,243	32,680	2,710	2,305	(D)
27	Printing and publishing.....	241	8,709	38,399	5,944	11,875	23,347	59,961	1,897	8,588	48,549
28	Chemicals and products.....	122	8,984	37,190	6,254	12,925	22,608	113,146	5,589	9,299	91,644
32	Stone, clay, & glass products	40	4,522	17,861	3,790	7,902	13,790	39,845	1,631	4,459	22,230
34	Fabricated metal products....	151	13,210	53,106	11,133	21,705	40,933	109,797	4,097	15,472	(D)
35	Machinery, except electrical.	126	414	23,852	4,081	8,523	16,550	35,049	2,577	5,403	(D)
36	Electrical machinery.....	24	3,056	14,717	2,194	4,212	9,543	26,244	1,691	4,625	(D)
37	Transportation equipment.....	23	8,681	43,536	7,183	14,910	33,952	88,303	2,315	12,926	75,170
39	Miscellaneous manufactures <sup>3</sup> ..	73	3,406	11,941	2,721	5,256	8,069	20,348	659	2,653	(D)
		BALTIMORE COUNTY									
	All industries, total <sup>1</sup> ....	197	65,489	296,634	50,281	98,406	208,182	618,604	20,317	<sup>2</sup> 47,663	<sup>2</sup> 225,195
20	Food and kindred products....	30	2,179	8,960	1,666	3,363	6,736	30,694	343	2,131	(D)
23	Apparel and related products.	6	185	607	169	293	539	827	3	79	(D)
24	Lumber and wood products.....	26	457	1,415	414	813	1,102	2,160	136	261	1,261
26	Pulp, paper and products.....	7	654	2,950	544	1,233	2,205	5,673	360	573	(D)
28	Chemicals and products.....	8	104	325	73	99	187	555	34	8	(D)
32	Stone, clay, & glass products	16	452	1,829	380	805	1,318	4,082	477	150	780
34	Fabricated metal products....	29	2,067	9,343	1,525	3,035	6,528	19,451	1,207	822	(D)
35	Machinery, except electrical.	15	2,291	9,608	1,554	3,274	5,562	16,122	687	2,851	(D)
37	Transportation equipment.....	10	21,473	101,208	15,731	30,137	65,180	177,003	6,487	14,663	(D)

D Withheld to avoid disclosing data for individual companies.

<sup>1</sup>In order to avoid disclosing data for individual companies, the statistics for some industry groups are not shown. Industry groups reporting less than 100 employees are also omitted. They are included, however, in the "All industries" line.<sup>2</sup>The 1954 and 1947 "All industries" totals are not strictly comparable because of differences in coverage of loggers and fluid milk distributors. See discussion in Introduction and footnote to Table 4 for comparable figures at the State level.<sup>3</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)<sup>4</sup>Independent city.

20 Food and kindred products	26 Pulp, paper and products	32 Stone, clay, and glass products	38 Instruments and related products
21 Tobacco manufactures	27 Printing and publishing	33 Primary metal industries	
22 Textile mill products	28 Chemicals and products	34 Fabricated metal products	39 Miscellaneous manufactures (Includes Group 19 Ordnance and accessories)
23 Apparel and related products	29 Petroleum and coal products	35 Machinery, except electrical	
24 Lumber and wood products	30 Rubber products	36 Electrical machinery	
25 Furniture and fixtures	31 Leather and leather goods	37 Transportation equipment	

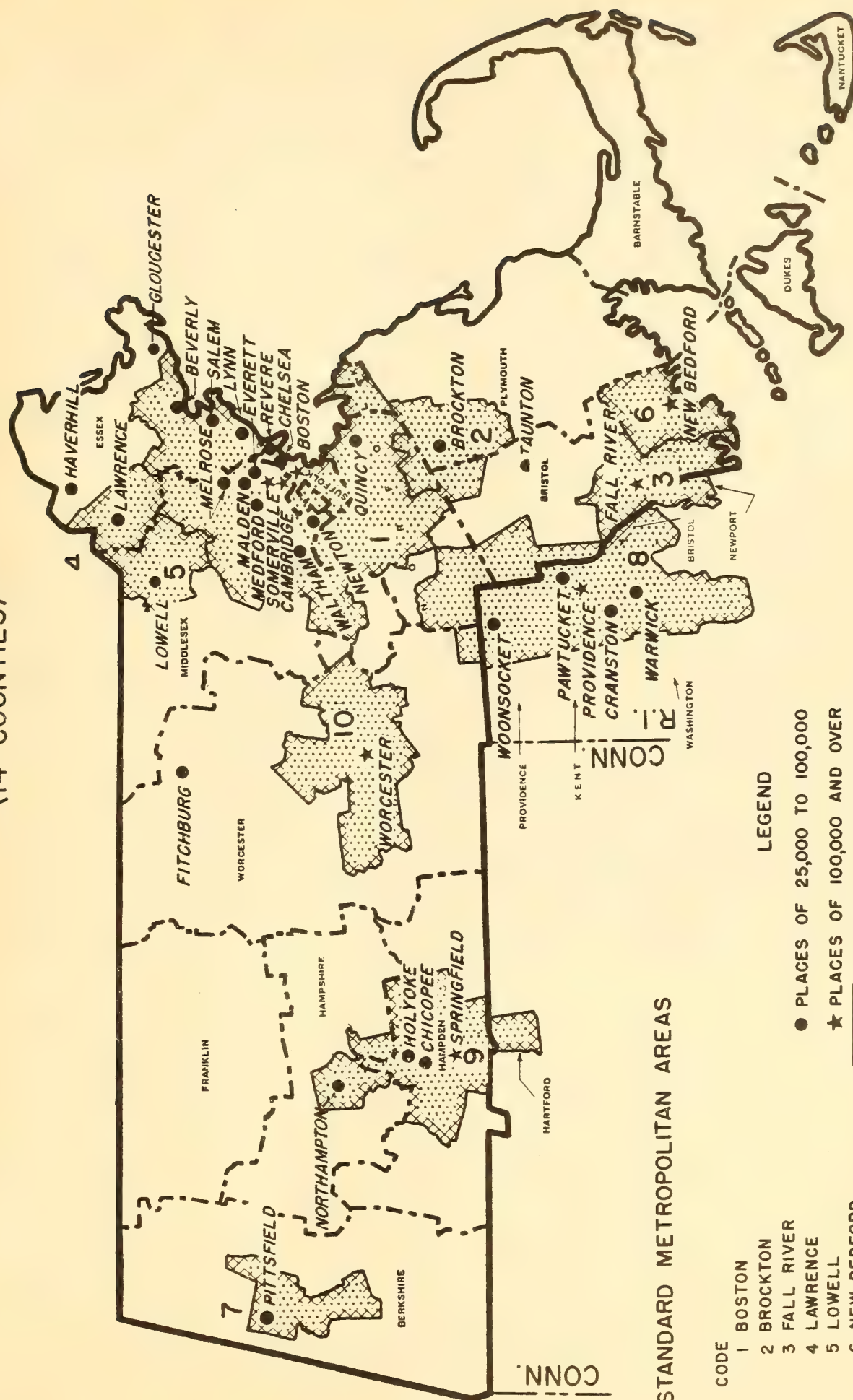
(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Maryland, total.....	3,253	680	2	49	383	367	120	61	380	184	19	17	29	151	46	236	187	56	103	39	144
1 to 4 employees.....	964	146	...	14	81	177	36	7	141	46	4	1	4	47	9	71	60	16	39	17	48
5 to 9 employees.....	520	96	...	7	41	72	19	4	88	25	4	3	5	26	3	45	31	7	13	8	23
10 to 19 employees.....	491	124	...	4	41	59	21	6	58	24	1	...	2	26	7	33	36	7	16	8	18
20 to 49 employees.....	599	171	1	7	82	41	27	10	51	45	1	3	3	24	8	39	31	11	15	3	26
50 to 99 employees.....	277	61	1	6	67	10	12	10	24	16	2	2	4	13	5	18	13	1	3	1	8
100 to 249 employees.....	253	57	...	4	49	8	4	15	13	20	5	3	8	9	4	17	9	6	9	...	13
250 to 499 employees.....	75	13	...	5	18	...	...	7	3	4	...	1	3	2	3	6	1	4	1	1	3
500 to 999 employees.....	34	8	...	2	4	...	...	1	...	2	...	1	...	4	2	3	2	1	...	1	3
1,000 to 2,499 employees.....	33	4	...	...	...	...	1	1	2	2	2	3	...	...	4	3	4	2	4	...	1
2,500 employees and over.....	7	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	1	3	...	1
Allegany:																					
1 to 19 employees.....	58	15	...	2	...	17	2	...	5	1	...	...	...	8	...	3	1	...	...	...	4
20 to 99 employees.....	20	11	...	1	...	...	...	...	...	...	...	...	...	3	2	1	1	...	...	1	...
100 employees and over.....	11	2	...	...	3	...	...	2	1	1	...	1	...	1	...	...	...	...	...	...	...
Anne Arundel:																					
1 to 19 employees.....	64	3	...	...	4	13	1	...	7	3	...	...	...	6	...	3	4	1	18	...	1
20 to 99 employees.....	12	4	...	...	...	...	...	...	1	2	...	...	...	...	...	1	1	...	2	...	1
100 employees and over.....	7	...	...	...	...	...	1	...	...	2	...	...	...	...	...	...	...	2	...	2	...
Baltimore City:																					
1 to 19 employees.....	906	138	...	12	135	32	48	11	166	56	4	2	9	21	12	91	86	16	10	13	44
20 to 99 employees.....	482	76	1	2	108	15	34	15	61	42	1	5	3	9	7	40	33	3	6	1	20
100 employees and over.....	241	50	...	5	45	3	2	18	14	24	5	3	5	10	9	20	7	5	7	...	9
Baltimore:																					
1 to 19 employees.....	122	17	...	1	5	20	3	2	9	7	2	1	1	8	4	20	9	1	4	2	6
20 to 99 employees.....	42	8	...	1	...	5	1	3	...	1	...	...	...	8	2	4	3	1	2	1	2
100 employees and over.....	33	5	...	1	1	...	2	...	...	1	...	...	...	...	4	5	3	5	4	1	...
Calvert:																					
1 to 19 employees.....	7	1	...	...	...	4	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
Caroline:																					
1 to 19 employees.....	30	14	...	...	1	4	...	1	5	1	...	...	...	1	...	...	...	...	2	...	1
20 to 99 employees.....	16	10	...	...	2	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	3
100 employees and over.....	6	3	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2
Carroll:																					
1 to 19 employees.....	48	13	...	1	1	12	3	...	7	3	...	...	...	3	...	1	3	...	1	...	...
20 to 99 employees.....	20	10	...	...	4	1	...	1	...	...	...	...	1	...	...	...	2	...	1	...	...
100 employees and over.....	12	...	...	...	6	...	...	1	...	...	...	1	2	1	...	...	1	...	...	...	...
Cecil:																					
1 to 19 employees.....	42	4	...	...	...	11	...	1	4	4	...	...	...	4	1	...	1	...	3	1	8
20 to 99 employees.....	13	3	...	...	3	1	...	...	...	3	...	...	...	...	...	...	...	...	2	...	1
100 employees and over.....	9	...	...	2	...	...	...	1	...	...	...	1	...	...	...	...	1	...	1	...	3
Charles:																					
1 to 19 employees.....	19	3	...	...	...	13	...	...	2	1	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	5	2	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Dorchester:																					
1 to 19 employees.....	53	19	...	...	1	19	...	...	4	1	...	...	...	2	...	...	1	...	5	...	1
20 to 99 employees.....	26	15	...	...	4	2	...	...	1	1	...	...	...	...	...	1	...	1	1	...	...
100 employees and over.....	8	5	...	...	2	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...
Frederick:																					
1 to 19 employees.....	47	22	...	...	1	9	1	...	4	...	...	...	...	5	...	1	...	1	...	1	2
20 to 99 employees.....	24	11	1	...	3	...	...	...	2	1	...	...	2	2	...	...	2	...	...	...	...
100 employees and over.....	11	1	...	1	3	...	...	...	1	...	...	...	1	...	1	1	...	1	...	...	1
Garrett:																					
1 to 19 employees.....	31	2	...	...	27	...	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	4	1	...	...	1	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Harford:																					
1 to 19 employees.....	44	8	...	...	...	13	...	...	10	2	...	...	...	2	...	3	1	1	1	...	3
20 to 99 employees.....	14	4	...	1	2	1	...	...	...	3	...	...	...	...	...	2	...	...	...	...	1
100 employees and over.....	2	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1
Howard:																					
1 to 19 employees.....	19	2	...	...	...	6	...	...	...	1	...	...	...	3	...	4	2	...	1	...	...
20 to 99 employees.....	6	1	...	...	1	...	...	...	1	...	...	...	...	1	...	1	...	1	...	...	...
100 employees and over.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Kent:																					
1 to 19 employees.....	21	7	...	2	2	3	...	...	1	1	1	...	...	...	...	...	...	...	4	...	...
20 to 99 employees.....	5	2	...	...	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	1
100 employees and over.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Montgomery:																					
1 to 19 employees.....	90	5	...	...	2	12	10	...	15	3	2	...	...	5	...	6	7	8	...	8	7
20 to 99 employees.....	22	10	...	1	...	2	...	...	1	...	...	...	...	1	...	2	1	2	...	1	1
100 employees and over.....	7	...	...	...	...	...	...	...	1	...	...	...	...	...	...	1	1	1	1	1	1
Prince Georges:																					
1 to 19 employees.....	102	7	...	...	2	14	7	1	20	5	...	...	1	11	1	10	9	1	2	6	5
20 to 99 employees.....	20	1	...	...	...	2	...	1	1	2	1	...	...	6	1	3	...	1	1	...	...
100 employees and over.....	7	1	...	...	...	...	...	...	...	1	1	...	...	1	...	1	...	2	...	...	...
Queen Annes:																					
1 to 19 employees.....	15	9	...	...	...	2	...	...	1	...	...	...	...	2	...	...	...	...	1	...	...
20 to 99 employees.....	9	8	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
St. Marys:																					
1 to 19 employees.....	28	...	...	...	...	21	...	...	3	...	...	...	...	1	...	...	...	...	3	...	...
20 to 99 employees.....	4	1	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...





# MASSACHUSETTS (14 COUNTIES)



## MANUFACTURES—AREA STATISTICS

Table 1.—MANUFACTURING EMPLOYMENT AT OPERATING ESTABLISHMENTS AND CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARIES FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS

(This table includes data for all manufacturing employees including those located in central administrative offices and auxiliaries. Tables 2-7 in this report include data for operating establishments only. For explanation of column captions see Introduction)

State, standard metropolitan areas, and year <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	(Number)	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
Massachusetts:						
1954.....	686,997	2,582,486	677,140	2,528,296	9,857	54,190
1953 <sup>2</sup> .....	741,457	2,743,880	733,868	2,706,164	7,589	37,716
1952 <sup>2</sup> .....	705,054	2,525,229	693,806	2,480,205	<sup>3</sup> 11,248	<sup>3</sup> 45,024
1951 <sup>2</sup> .....	713,931	2,449,429	702,683	2,404,405	11,248	45,024
1950 <sup>2</sup> .....	696,777	2,157,181	688,603	2,126,009	8,174	31,172
1949 <sup>2</sup> .....	659,807	1,942,312	649,700	1,907,132	10,107	35,180
1954						
Standard metropolitan areas:						
Boston <sup>4</sup> .....	286,612	1,142,842	280,274	1,106,467	6,338	36,375
Brockton <sup>5</sup> .....	20,599	66,348	19,807	63,614	792	2,734
Fall River <sup>6</sup> .....	27,005	74,066	26,990	73,942	15	124
Lawrence <sup>7</sup> .....	17,384	59,416	17,302	59,071	82	345
Lowell <sup>8</sup> .....	19,543	62,577	19,459	62,060	84	517
New Bedford <sup>9</sup> .....	27,903	83,772	27,852	83,549	51	223
Pittsfield <sup>10</sup> .....	16,153	75,829	15,499	71,520	654	4,309
Providence <sup>11</sup> .....	131,896	460,354	130,825	453,830	1,071	6,524
Springfield-Holyoke <sup>12</sup> .....	74,496	303,873	74,350	302,543	146	1,330
Worcester <sup>13</sup> .....	50,685	203,884	50,197	201,435	488	2,449

<sup>1</sup>Employment data for administrative offices and auxiliaries on a State basis are not available for the years prior to 1949. Similar data for standard metropolitan areas are available only for 1954.<sup>2</sup>The employment figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period. The employment figures for administrative and auxiliary units were compiled chiefly from Bureau of Old-Age and Survivors Insurance records and are not strictly comparable with the figures for these units that were collected by the Bureau of the Census for the year 1954.<sup>3</sup>The 1951 data are shown for 1952 since auxiliary and administrative unit data were not collected in 1952.<sup>4</sup>The Boston Standard Metropolitan Area consists of all of Suffolk County, Mass.; Cambridge, Everett, Malden, Medford, Melrose, Newton, Somerville, Waltham, and Woburn cities; Arlington, Ashland, Bedford, Belmont, Burlington, Concord, Framingham, Lexington, Lincoln, Natick, North Reading, Reading, Stoneham, Wakefield, Watertown, Wayland, Weston, Wilmington, and Winchester towns in Middlesex County, Mass.; Beverly, Lynn, Peabody, and Salem cities; Danvers, Hamilton, Lynnfield, Manchester, Marblehead, Middleton, Nahant, Saugus, Swampscott, and Wenham towns in Essex County, Mass.; Quincy city, Braintree, Brookline, Canton, Cohasset, Dedham, Dover, Medfield, Milton, Needham, Norwood, Randolph, Sharon, Walpole, Wellesley, Westwood, and Weymouth towns in Norfolk County, Mass.; Hingham and Hull towns in Plymouth County, Mass.<sup>5</sup>The Brockton Standard Metropolitan Area consists of Brockton city; Abington, Bridgewater, East Bridgewater, Rockland, West Bridgewater, and Whitman towns in Plymouth County, Mass.; Avon, Holbrook and Stoughton towns in Norfolk County, Mass.; Easton town in Bristol County, Mass.<sup>6</sup>The Fall River Standard Metropolitan Area consists of Fall River City; Somerset, Swansea and Westport towns in Bristol County, Massachusetts; and Tiverton town in Newport County, Rhode Island. The Fall River Area was combined with the New Bedford Area in 1947.<sup>7</sup>The Lawrence Standard Metropolitan Area consists of Lawrence city; Andover, Methuen, and North Andover towns in Essex County, Mass.<sup>8</sup>The Lowell Standard Metropolitan Area consists of Lowell city; Billerica, Chelmsford, Dracut, and Tewksbury towns in Middlesex County, Mass.<sup>9</sup>The New Bedford Standard Metropolitan Area consists of New Bedford city; Acushnet, Dartmouth, and Fairhaven towns in Bristol County, Mass.<sup>10</sup>The Pittsfield Standard Metropolitan Area consists of Pittsfield city; Dalton, Lenox, and Lee towns in Berkshire County, Mass.<sup>11</sup>The Providence Standard Metropolitan Area consists of Central Falls, Cranston, Pawtucket, Providence, and Woonsocket cities; Cumberland, East Providence, Johnston, Lincoln, North Providence, North Smithfield, and Smithfield towns in Providence County, Rhode Island; North Kingstown town in Washington County, Rhode Island; Warwick City; East Greenwich and West Warwick towns in Kent County, Rhode Island; Bristol County, Rhode Island; Attleboro city, North Attleborough and Seekonk towns in Bristol County, Massachusetts; Bellingham, Franklin, Plainville, and Wrentham towns in Norfolk County, Massachusetts; Blackstone and Millville towns in Worcester County, Massachusetts.<sup>12</sup>The Springfield-Holyoke Standard Metropolitan Area consists of Chicopee, Holyoke, Springfield, and Westfield cities, Agawam, East Longmeadow, Longmeadow, Ludlow, West Springfield, and Wilbraham towns in Hampden County, Mass.; Northampton city, Easthampton and South Hadley towns in Hampshire County, Mass.; Enfield town in Hartford County, Conn.<sup>13</sup>The Worcester Standard Metropolitan Area consists of Worcester city, Auburn, East Brookfield, Grafton, Holden, Leicester, Millbury, Northborough, North Brookfield, Shrewsbury, Spencer, Westborough, and West Boylston towns in Worcester County, Mass.



Table 2.—GENERAL STATISTICS FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Year	Establish- ments, number	All employees		Production workers		Value added by manufacture (\$1,000)
		Number	Payroll (\$1,000)	Number	Wages (\$1,000)	
MASSACHUSETTS						
1954 <sup>1</sup> .....	11,205	677,140	2,528,296	536,456	1,769,102	4,356,462
1953 <sup>2</sup> .....	} (NA) {	733,868	2,706,164	594,325	1,972,574	4,630,013
1952 <sup>2</sup> .....		693,806	2,480,205	559,166	1,795,997	4,293,079
1951 <sup>2</sup> .....		702,683	2,404,405	572,340	1,764,671	4,024,945
1950 <sup>2</sup> .....		688,603	2,126,009	561,578	1,562,980	3,665,666
1949 <sup>2</sup> .....		649,700	1,907,132	528,426	1,383,253	3,193,499
1947.....	10,509	718,069	1,920,718	601,370	1,463,144	3,356,311
1939.....	8,444	549,550	702,487	458,372	498,177	1,181,465
1937.....	8,619	564,240	710,120	496,036	556,077	1,256,490
1935.....	8,266	500,136	574,793	437,459	438,416	975,871
1933.....	8,145	} (NA) {	(NA)	398,592	354,524	868,122
1931.....	9,305			434,441	474,189	1,142,357
1929.....	9,872			557,494	694,805	1,710,729
1927.....	10,037	} (NA) {	(NA)	578,068	705,930	1,639,039
1925.....	10,027			591,438	716,156	1,631,974
1923.....	10,519			667,172	799,363	1,735,530
1921.....	9,994	} (NA) {	(NA)	579,071	641,361	1,408,378
1919.....	11,627			712,254	764,579	1,746,539
1914.....	11,927			606,350	341,011	709,417
1909.....	11,684	633,205	364,452	584,559	301,173	659,764
1904.....	10,723	521,223	272,044	488,399	232,389	497,682
1899.....	10,929	463,490	224,758	438,234	195,278	408,971
BOSTON STANDARD METROPOLITAN AREA						
1954 <sup>1</sup> .....	5,474	280,274	1,106,467	211,005	730,571	1,972,147
1947.....	5,393	270,932	750,519	215,046	530,140	1,377,383
1939.....	4,378	192,556	273,028	157,230	187,431	508,099
PROVIDENCE STANDARD METROPOLITAN AREA						
1954 <sup>1</sup> .....	2,741	130,825	453,830	108,791	330,670	744,286
1947.....	2,366	154,971	397,800	134,268	313,131	692,204
1939.....	1,411	108,620	125,065	95,411	95,033	218,331
SPRINGFIELD-HOLYOKE STANDARD METROPOLITAN AREA						
1954 <sup>1</sup> .....	896	74,350	302,543	58,281	215,158	501,938
1947.....	832	81,598	233,624	67,366	177,556	373,118
1939.....	639	47,525	65,924	38,504	46,090	114,584
WORCESTER STANDARD METROPOLITAN AREA						
1954 <sup>1</sup> .....	768	50,197	201,435	38,555	137,485	348,165
1947.....	702	53,251	153,583	43,525	114,474	241,917
1939.....	600	38,167	55,961	32,033	40,511	99,796

NA Not available.

<sup>1</sup>The 1954 figures include data for establishments engaged in the processing and distribution of fluid milk, Industry Group 202, Dairy Products. These establishments were not included in the figures for the Annual Survey years 1949-1953 or earlier Census years. In addition, the 1954 Census and Annual Survey years include data for Logging camps and contractors, Industry 2411, which were not included within the scope of the 1947 Census. See footnotes to Table 4 for comparable 1954 and 1947 totals. There were also a number of changes in the definition of manufacturing industries during earlier Census years that affect the comparability of the historical series. Among the more important of these were: figures for 1935 and later years exclude data for "Railroad repair shops" and "Manufactured gas" which were included in 1899-1933 figures; the minimum size of establishment included for 1954 and 1947 was one employee, for 1939-1921 manufacturing establishments reporting value of shipments of \$5,000 or more were within scope whereas for 1919 and earlier years the cutoff was \$500. (This change in procedure has not appreciably affected the comparability of the historical data except for the figures on number of establishments.)

<sup>2</sup>The employment and payroll figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures Volume for this period.



## MANUFACTURES—AREA STATISTICS

Table 3.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
Massachusetts, total.....	4,690,514	11,205	677,140	2,528,296	536,456	1,047,412	1,769,102	4,356,462	180,698	<sup>1</sup> 718,069	<sup>1</sup> 3,356,311
STANDARD METROPOLITAN AREA											
Boston Area.....	2,369,986	5,474	280,274	1,106,467	211,005	413,125	730,571	1,972,147	68,241	270,932	1,377,383
Brockton Area.....	129,428	416	19,807	63,614	16,663	31,748	47,274	102,719	2,480	(NA)	(NA)
Fall River Area.....	137,298	343	26,990	73,942	24,650	44,276	61,535	111,675	3,702	(NA)	(NA)
Portion in Mass.....	131,639	332	26,902	73,631	24,582	44,135	61,326	111,257	3,679	(NA)	(NA)
Portion in R. I.....	5,659	11	88	311	68	140	209	418	23	(NA)	(NA)
Lawrence Area.....	125,935	210	17,302	59,071	14,184	27,410	43,252	98,445	3,508	(NA)	(NA)
Lowell Area.....	133,928	262	19,459	62,060	16,823	32,348	48,059	100,384	3,140	(NA)	(NA)
New Bedford Area.....	137,469	291	27,852	83,549	24,135	45,906	65,193	130,298	4,378	(NA)	(NA)
Pittsfield Area.....	66,567	97	15,499	71,520	10,510	21,780	44,114	139,958	10,825	(NA)	(NA)
Providence Area.....	737,203	2,741	130,825	453,830	108,791	219,308	330,670	744,286	29,218	154,971	692,204
Portion in Mass.....	68,285	314	16,108	59,534	13,160	27,413	41,249	95,175	3,633	17,189	75,851
Portion in R. I.....	668,918	2,427	114,716	394,296	95,631	191,894	289,421	649,110	25,584	137,782	616,353
Springfield-Holyoke Area.....	407,255	896	74,350	302,543	58,281	115,862	215,158	501,938	27,595	81,598	373,118
Portion in Mass.....	391,791	868	71,357	(D)	(D)	(D)	(D)	(D)	(D)	77,605	(D)
Portion in Conn.....	15,464	28	2,993	(D)	(D)	(D)	(D)	(D)	(D)	3,993	(D)
Worcester Area.....	276,336	768	50,197	201,435	38,555	75,959	137,485	348,165	15,929	53,251	241,917
COUNTIES											
Barnstable.....	46,805	68	662	1,912	509	993	1,384	3,093	313	512	1,820
Berkshire.....	132,966	219	25,843	103,230	19,403	39,040	69,961	197,757	13,258	28,223	136,878
Bristol.....	381,569	1,073	78,378	240,964	68,127	129,498	185,013	378,243	17,062	89,382	367,540
Dukes.....	5,633	17	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Essex.....	522,384	1,383	87,651	329,066	68,405	130,029	225,824	562,972	19,781	104,376	468,162
Franklin.....	52,747	131	7,034	26,503	5,730	11,541	19,237	47,634	2,316	7,965	37,247
Hampden.....	367,971	840	68,406	279,987	53,534	106,619	198,484	472,215	26,415	74,167	346,414
Hampshire.....	87,594	183	9,706	35,610	8,031	16,141	26,582	58,903	3,286	9,849	42,749
Middlesex.....	1,064,569	2,049	133,754	512,618	104,605	209,944	352,367	922,611	33,105	128,648	634,799
Nantucket.....	3,484	4	(D)	(D)	(D)	(D)	(D)	(D)	...	(D)	(D)
Norfolk.....	392,308	583	36,040	143,671	27,614	55,946	100,180	248,205	12,678	29,249	139,294
Plymouth.....	189,468	497	21,617	68,981	18,031	33,789	50,669	115,734	3,105	21,574	88,738
Suffolk.....	896,615	2,688	101,706	384,903	76,665	144,854	249,259	674,748	19,402	106,824	558,223
Worcester.....	546,401	1,470	106,030	399,591	85,588	168,594	289,468	672,125	29,892	117,248	534,227
CITIES WITH 10,000 INHAB- ITANTS OR MORE											
Attleboro.....	23,809	160	10,827	40,778	8,551	17,760	26,378	66,270	2,369	12,469	54,962
Beverly.....	28,884	44	3,938	15,613	3,080	5,488	11,227	22,017	1,104	4,073	12,838
Boston.....	801,444	2,538	95,115	359,763	71,507	135,120	232,125	637,749	18,372	101,485	544,259
Brockton.....	62,860	223	9,798	28,885	8,316	15,108	21,784	44,754	662	10,467	39,821
Cambridge.....	120,740	387	26,814	108,198	19,278	38,478	67,481	174,719	5,290	27,621	153,129
Chelsea.....	38,912	86	5,250	20,594	4,122	7,780	13,890	30,975	812	4,568	22,786
Chicopee.....	49,211	97	12,749	52,229	10,561	21,265	40,547	83,107	4,461	17,261	85,112
Everett.....	45,982	109	8,743	40,372	6,695	13,384	27,716	73,841	5,422	11,155	65,464
Fall River.....	111,963	307	26,364	71,699	24,095	43,094	59,690	108,289	3,525	29,120	111,443
Fitchburg.....	42,691	101	11,002	41,808	8,871	17,624	30,976	70,231	2,242	12,416	61,645
Gardner.....	19,581	81	5,295	19,811	4,529	8,551	14,871	26,946	731	6,385	36,712
Gloucester.....	25,167	59	2,199	6,826	1,865	3,607	5,246	13,889	411	2,097	8,756
Haverhill.....	47,280	214	11,408	35,899	9,797	17,548	27,172	65,709	1,730	11,580	55,702
Holyoke.....	54,661	163	11,565	42,373	9,393	18,670	31,155	74,072	4,689	14,917	65,579
Lawrence.....	80,536	174	13,134	44,753	10,839	20,895	32,862	78,248	3,133	29,576	129,012
Leominster.....	24,075	119	5,732	18,591	4,986	9,950	14,195	32,695	3,021	5,338	21,301
Lowell.....	97,249	211	15,895	48,846	13,742	26,077	37,556	81,219	2,467	18,127	78,056
Lynn.....	99,738	306	29,380	129,740	19,583	39,220	76,491	222,392	8,545	25,700	120,273
Malden.....	59,804	120	4,972	18,987	4,003	7,834	12,934	38,989	1,147	5,579	26,046
Marlborough.....	15,756	36	2,829	9,058	2,452	4,642	6,804	13,811	312	2,944	11,520
Medford.....	66,113	57	2,075	8,049	1,723	3,368	5,710	15,124	817	2,236	12,217
Melrose.....	26,988	31	1,406	4,774	1,052	2,068	2,948	9,109	149	581	3,043
New Bedford.....	109,189	246	26,098	77,936	22,763	43,165	61,278	121,368	4,059	31,736	127,731
Newburyport.....	14,111	30	4,082	13,328	3,521	6,488	10,203	17,991	839	3,749	13,945
Newton.....	81,994	94	8,359	29,582	6,871	14,726	22,071	53,952	1,764	5,587	24,164
North Adams.....	21,567	37	5,220	14,727	4,312	8,271	11,759	29,274	1,795	5,427	24,135
Northampton.....	29,063	53	3,030	10,944	2,403	4,963	8,230	16,900	1,161	3,149	14,192
Peabody.....	22,645	123	5,306	21,337	4,576	8,309	16,781	32,631	935	6,376	37,139
Pittsfield.....	53,348	74	13,545	62,890	8,939	18,326	37,911	124,603	9,306	14,904	74,705
Quincy.....	83,835	137	11,623	49,466	8,124	15,733	32,403	87,420	2,419	7,464	36,898

See footnotes at end of table.

Table 3.--GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947--Continued  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
Revere.....	36,763	33	555	1,817	462	867	1,235	2,692	160	598	2,537
Salem.....	41,880	122	5,003	18,707	4,137	7,714	13,469	34,675	912	6,498	26,585
Somerville.....	102,351	168	8,331	34,323	6,512	14,477	24,454	65,644	2,555	7,480	45,688
Springfield.....	162,399	328	28,797	120,636	21,546	42,173	80,752	206,214	11,664	28,210	128,325
Taunton.....	40,109	104	5,675	19,446	4,737	9,422	14,156	30,793	1,080	6,723	27,222
Waltham.....	47,187	155	13,088	51,807	9,925	20,340	34,180	106,178	2,309	10,855	42,600
Westfield.....	20,962	61	3,590	14,300	2,947	6,093	10,750	22,506	1,283	3,327	14,966
Woburn.....	20,492	52	2,605	11,099	1,974	3,900	7,565	22,014	854	1,625	15,725
Worcester.....	203,486	595	42,815	172,323	32,484	63,546	116,113	297,495	12,855	46,847	215,807

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>The 1947 data are not strictly comparable with the figures shown for 1954 due to differences in coverage of loggers and fluid milk distributors.  
See discussion in Introduction and footnotes to Table 4.



## MANUFACTURES—AREA STATISTICS

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947

(For explanation of column captions see Introduction)

Ind. code	Industry	1954										1947	
		Establish- ments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
	All industries, total <sup>1</sup> ...	11,205	4,229	677,140	2,528,296	536,456	1,047,412	1,769,102	4,356,462	( <sup>2</sup> )	180,698	3718,009	3,356,311
20	Food and kindred products..	1,450	407	48,658	176,233	31,799	63,103	99,042	313,433	( <sup>2</sup> )	15,187	( <sup>4</sup> )	( <sup>4</sup> )
201	Meat products.....	121	43	5,655	22,944	4,380	9,217	16,519	36,477	( <sup>2</sup> )	1,659	5,881	26,155
2011	Meat packing plants.....	34	10	1,592	6,775	1,222	2,593	4,989	11,776	( <sup>2</sup> )	309	2,691	11,323
2013	Prepared meats.....	64	27	3,401	14,329	2,590	5,464	9,939	21,639	( <sup>2</sup> )	1,260	2,727	14,004
2015	Poultry dressing plants.....	23	6	661	1,839	567	1,159	1,590	3,061	23,301	89	193	828
202	Dairy products.....	483	101	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	( <sup>4</sup> )	( <sup>4</sup> )
2022	Natural cheese.....	6	2	132	540	73	166	235	877	2,190	27	( <sup>4</sup> )	( <sup>4</sup> )
2024	Ice cream and ices.....	64	20	1,560	5,637	855	1,636	2,444	13,603	31,578	806	( <sup>4</sup> )	( <sup>4</sup> )
2026	Fluid milk.....	182	12	1,319	4,207	792	1,647	2,306	8,478	27,786	698	( <sup>4</sup> )	( <sup>4</sup> )
2027	Fluid milk and other products..	222	66	6,949	26,850	2,824	6,052	9,813	47,688	147,815	2,516	( <sup>4</sup> )	( <sup>4</sup> )
203	Canned and frozen foods.....	103	39	3,410	10,863	2,910	5,463	7,628	19,872	( <sup>2</sup> )	989	3,188	15,170
2033	Canned fruits and vegetables...	36	9	844	2,737	674	1,278	1,726	7,025	21,979	395	1,090	6,298
2035	Pickles and sauces.....	16	6	312	985	262	523	635	2,100	5,917	83	315	1,127
2036	Packaged seafood.....	40	21	2,088	6,671	1,836	3,419	4,959	10,113	42,220	490	(NA)	(NA)
204	Grain mill products.....	24	13	844	2,973	633	1,321	1,923	9,496	( <sup>2</sup> )	269	(D)	(D)
2042	Prepared animal feeds.....	19	10	583	2,171	422	879	1,373	7,186	32,283	231	(D)	(D)
205	Bakery products.....	289	88	12,220	44,305	7,289	14,650	23,221	73,150	( <sup>2</sup> )	3,113	13,690	59,781
2051	Bread and related products.....	281	84	10,753	39,486	6,073	12,217	19,531	60,232	119,410	2,950	(D)	(D)
2052	Biscuit and crackers.....	8	4	1,467	4,819	1,215	2,433	3,690	12,917	24,476	162	(D)	(D)
207	Candy and related products...	83	32	7,346	22,840	6,086	11,510	16,282	33,805	( <sup>2</sup> )	1,297	9,000	50,105
2071	Confectionery products.....	77	28	6,158	18,143	5,215	9,811	13,166	30,093	74,799	1,169	7,339	32,209
208	Beverages.....	167	51	4,158	16,074	2,219	4,246	6,831	33,334	( <sup>2</sup> )	1,261	5,117	31,292
2081	Bottled soft drinks.....	151	35	2,427	8,232	1,178	2,204	3,061	14,352	24,723	1,006	2,586	12,923
2082	Beer and ale.....	8	8	1,133	5,056	621	1,212	2,541	12,306	18,756	(D)	1,946	14,536
209	Miscellaneous foods.....	178	38	3,400	11,629	2,432	4,678	6,582	25,159	( <sup>2</sup> )	1,973	3,213	19,854
2095	Flavorings.....	33	3	260	941	161	313	403	1,767	4,332	53	327	2,034
2097	Manufactured ice.....	35	1	224	808	172	399	558	1,843	2,311	(D)	626	5,209
2099	Food preparations, n.e.c.....	96	31	2,618	8,794	1,869	3,503	4,984	18,794	93,977	1,760	2,027	(D)
21	Tobacco manufactures.....	21	1	350	818	302	535	600	1,971	( <sup>2</sup> )	14	377	1,272
22	Textile mill products.....	571	378	70,031	233,391	62,613	122,837	188,729	357,659	( <sup>2</sup> )	12,023	127,256	544,027
221	Woolen and worsted manufac- ture.....	130	108	19,335	68,991	17,413	34,788	57,164	100,963	( <sup>2</sup> )	3,413	52,551	(D)
2211	Scouring and combing plants...	32	25	3,909	13,187	3,580	7,141	11,189	20,408	41,613	970	4,254	18,235
2212	Yarn mills, wool, exc. carpet...	29	23	2,542	7,690	2,365	4,438	6,752	12,138	29,900	260	(D)	(D)
2213	Woolen and worsted fabrics.....	62	54	12,631	47,216	11,237	22,763	38,507	66,861	223,589	2,117	39,956	179,681
2216	Finishing wool textiles.....	7	6	252	897	230	445	714	1,554	1,903	65	(D)	(D)
222	Yarn and thread mills.....	33	25	2,823	8,535	2,513	4,657	6,485	13,506	( <sup>2</sup> )	(D)	8,016	30,982
2224	Yarn mills, cotton system.....	16	13	1,717	4,868	1,608	2,939	4,128	7,504	17,559	(D)	(D)	(D)
223	Broad-woven fabrics.....	67	55	21,252	61,107	19,864	37,156	53,465	80,888	( <sup>2</sup> )	2,415	36,003	154,364
2233	Cotton broad-woven fabrics.....	30	23	13,697	38,061	12,946	24,038	34,060	49,398	100,085	1,323	24,818	102,590
2234	Synthetic broad-woven fabrics..	37	32	7,554	23,046	6,918	13,118	19,405	31,490	91,183	1,092	11,185	51,774
2241	Narrow fabric mills.....	49	29	3,437	10,967	3,099	5,920	8,584	15,482	35,542	594	3,233	11,856
225	Knitting mills.....	68	43	5,499	17,044	4,755	9,173	12,502	27,815	( <sup>2</sup> )	985	6,278	24,849
2252	Seamless hosiery mills.....	4	3	328	886	280	482	631	1,171	2,353	73	587	1,383
2253	Knit outerwear mills.....	28	15	2,680	7,757	2,384	4,485	5,854	10,641	25,674	464	2,405	10,331
2254	Knit underwear mills.....	5	5	392	955	306	546	717	1,015	1,930	28	1,506	4,973
2256	Knit fabric mills.....	23	13	1,508	5,581	1,245	2,617	3,758	12,422	45,328	314	771	3,907
2261	Finishing textiles exc. wool.	57	39	8,153	31,973	6,915	14,526	24,633	51,278	116,864	1,707	9,498	37,854
227	Carpets and rugs.....	31	16	2,419	8,756	2,118	4,370	7,073	17,924	( <sup>2</sup> )	534	(D)	(D)
2271	Wool carpets and rugs.....	14	9	1,519	5,451	1,338	2,644	4,234	11,256	( <sup>2</sup> )	364	(D)	(D)
228	Hats, except cloth and mil- linery.....	8	5	860	2,569	763	1,411	2,037	3,486	( <sup>2</sup> )	(D)	(D)	(D)
2283	Straw hats.....	4	3	118	328	108	207	250	450	692	(D)	(D)	(D)
229	Miscellaneous textile goods..	128	58	6,250	23,446	5,168	10,832	16,782	46,311	( <sup>2</sup> )	2,024	6,845	34,244
2293	Padding and upholstery filling.	13	2	175	719	136	307	415	1,217	3,372	6	143	1,096
2294	Processed textile waste.....	54	21	1,124	3,557	929	2,004	2,477	6,441	19,112	290	1,020	4,512
2295	Coated fabric, exc. rubberized.	26	14	1,285	5,671	972	2,154	3,613	9,740	27,733	312	1,390	8,904
2298	Cordage and twine.....	13	8	1,473	5,083	1,216	2,294	3,615	13,351	24,510	(D)	1,798	9,001
2299	Textile goods, n.e.c.....	8	5	1,204	4,204	1,034	2,134	3,270	8,412	14,476	625	(D)	(D)
23	Apparel and related prod- ucts.....	1,283	677	58,897	155,694	53,587	96,305	125,104	244,050	( <sup>2</sup> )	3,374	47,465	172,497
231	Men's and boys' suits and coats.....	101	51	6,603	20,875	5,952	10,389	16,777	28,139	( <sup>2</sup> )	257	9,136	35,796

See footnotes at end of table.



Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954										1947	
		Establish- ments, number		All employees		Production workers			Value added by manufacture	Value of shipments	Capital expendi- tures, new	All employees, number	Value added by manufacture
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
	Apparel & related products—Con												
232	Men's & boys' furnishings...	184	79	7,517	18,153	6,922	12,315	15,093	26,435	(2)	247	8,025	25,695
2321	Men's dress shirts & nightwear...	23	15	2,795	6,068	2,713	4,811	5,754	8,647	19,866	54	3,238	9,071
2323	Men's and boys' neckwear.....	21	6	421	1,181	337	565	722	1,947	3,691	(D)	(D)	(D)
2327	Separate trousers.....	36	16	1,097	2,712	973	1,596	2,003	4,176	9,932	31	1,134	4,025
2329	Men's and boys' clothing, nec..	79	39	2,883	7,315	2,612	4,798	5,937	10,408	23,585	145	2,899	9,678
233	Women's and misses' outerwear	464	306	21,314	57,213	19,577	35,329	46,495	93,645	(2)	967	13,476	51,161
2333	Dresses, unit price.....	148	116	8,691	22,457	8,104	13,474	18,391	35,774	77,267	249	5,991	20,222
2334	Dresses, dozen price.....	52	37	3,798	9,092	3,501	6,231	7,383	13,848	30,248	107	2,794	9,559
2337	Women's suits, coats, & skirts.	172	103	6,270	19,668	5,618	10,310	15,745	34,713	88,086	486	2,149	9,572
2339	Women's outerwear, n.e.c.....	51	27	1,420	3,512	1,303	3,614	2,905	5,130	9,045	58	640	1,973
234	Women's undergarments.....	54	41	6,106	14,813	5,608	10,165	12,085	23,589	(2)	415	4,662	16,505
236	Children's outerwear.....	46	33	2,002	4,989	1,827	3,371	4,033	9,149	(2)	56	1,162	3,164
2361	Children's dresses.....	13	9	676	1,482	640	1,216	1,280	2,635	4,762	21	552	1,405
2363	Children's coats.....	8	7	429	1,332	390	718	1,064	2,077	4,814	10	310	841
2369	Children's outerwear, n.e.c....	25	17	897	2,174	797	1,437	1,688	4,437	10,242	24	300	918
238	Miscellaneous apparel.....	95	56	5,144	13,182	4,619	7,993	10,465	20,839	(2)	162	3,272	11,100
2384	Robes and dressing gowns.....	14	10	939	2,182	888	1,456	1,864	3,473	7,140	(D)	(D)	(D)
2385	Waterproof outer garments.....	38	23	2,482	6,350	2,239	3,966	5,135	10,113	19,441	61	(D)	(D)
2387	Belts.....	14	7	585	1,448	495	845	1,044	2,077	4,019	25	177	481
239	Fabricated textiles, n.e.c....	299	92	7,784	20,197	6,786	12,266	14,581	34,013	(2)	1,234	6,336	24,206
2391	Curtains and draperies.....	63	31	3,174	7,598	2,882	5,171	5,729	13,044	39,614	224	1,951	7,602
2392	Housefurnishings, n.e.c.....	57	18	1,281	3,789	1,022	1,845	2,353	6,591	17,322	182	2,058	7,549
2393	Textile bags.....	10	3	123	320	102	177	212	493	1,165	(D)	161	734
2394	Canvas products.....	53	6	464	1,226	373	697	887	1,841	3,930	37	398	1,138
2395	Tucking, pleating and stitching	16	5	255	649	239	427	574	989	1,187	21	203	591
2396	Trimmings and art goods.....	24	10	961	2,857	787	1,583	1,865	5,430	13,781	(D)	822	3,839
2399	Textile products, n.e.c.....	57	15	1,312	3,274	1,175	2,017	2,521	4,906	10,517	599	549	2,169
24	Lumber and wood products...	488	70	6,000	18,969	4,990	9,819	14,285	28,659	(2)	1,032	(4)	(4)
242	Lumber and basic products....	129	3	700	1,885	628	1,221	1,598	2,673	(2)	201	1,030	3,706
243	Millwork and related products	128	15	1,311	4,856	1,007	2,047	3,483	6,931	(2)	184	1,598	5,232
2431	Millwork plants.....	122	13	1,190	4,427	906	1,845	3,144	6,393	14,060	148	1,293	4,797
2433	Prefabricated wood products....	6	2	121	429	101	201	339	538	1,378	36	305	435
244	Wooden containers.....	79	23	1,621	4,663	1,422	2,867	3,712	6,350	(D)	247	2,431	9,477
2444	Wooden boxes.....	62	20	1,320	3,824	1,147	2,304	3,004	5,207	10,146	237	1,887	7,958
2445	Cooperage.....	10	2	195	557	183	370	493	818	1,741	(D)	428	1,215
249	Miscellaneous wood products..	131	29	2,318	7,472	1,890	3,610	5,409	12,558	(2)	383	2,401	10,060
2492	Lasts and related products....	20	11	639	2,399	515	1,011	1,760	3,321	4,886	114	(D)	(D)
2499	Wood products, n.e.c.....	94	12	1,355	4,146	1,119	2,141	3,024	7,762	14,390	253	1,422	5,679
25	Furniture and fixtures.....	441	148	12,780	44,876	10,762	21,130	33,431	70,721	(2)	1,460	11,017	50,074
251	Household furniture.....	324	120	10,575	37,639	8,911	17,417	27,872	59,583	(2)	1,192	7,809	32,774
2511	Wood furniture, not upholstered	114	40	4,395	16,061	3,758	7,468	11,984	21,349	38,490	426	3,884	14,382
2512	Upholstered household furniture	116	46	3,196	10,978	2,720	5,223	8,342	17,406	35,255	351	1,947	8,137
2515	Mattresses and bedsprings.....	60	22	1,994	6,836	1,565	3,038	4,738	13,968	28,751	278	1,391	7,432
253	Public and professional fur- niture.....	14	4	300	1,080	255	527	864	1,446	(2)	53	(D)	(D)
2541	Partitions and fixtures.....	54	15	943	3,612	759	1,494	2,617	5,381	9,500	89	900	3,820
256	Screens, shades, and blinds..	37	6	682	1,661	589	1,211	1,344	2,728	(2)	45	(D)	(D)
2563	Venetian blinds.....	17	5	561	1,351	505	1,031	1,122	2,199	4,637	10	283	1,200
26	Pulp, paper and products...	367	232	34,321	134,621	27,781	59,211	96,025	237,037	(2)	19,945	34,868	190,680
261	Pulp, paper and board.....	62	61	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2612	Paper and paper board mills....	59	58	11,753	51,667	9,776	21,905	39,180	89,107	195,680	8,064	(D)	(D)
2641	Paper coating and glazing....	26	18	2,313	9,569	1,900	4,242	6,992	14,802	41,162	(D)	2,033	12,388
2661	Paper bags.....	19	9	1,580	5,157	1,321	2,588	3,870	7,860	22,496	380	(D)	(D)
267	Paperboard containers.....	129	89	9,131	31,785	7,697	15,854	23,285	57,072	(2)	2,742	8,020	41,830
2671	Paperboard boxes.....	114	81	8,642	30,213	7,263	14,895	22,040	54,146	123,055	2,463	7,679	40,404
2674	Fiber cans, tubes, drums, etc..	15	8	489	1,572	434	958	1,245	2,926	5,919	279	341	1,426
269	Pulp, paper and products, n.e.c.....	115	45	7,400	29,080	5,296	11,206	17,183	56,526	(2)	6,814	8,599	49,317
2691	Die-cut paper and board.....	26	8	509	1,797	432	1,076	1,279	3,130	5,742	(D)	(D)	(D)
2699	Paper & board products, n.e.c..	85	34	6,386	25,203	4,410	9,104	14,122	49,119	95,715	5,657	7,796	44,386
27	Printing and publishing....	1,202	248	36,360	149,983	24,081	44,881	91,680	241,912	(2)	10,531	34,564	174,667
2711	Newspapers.....	191	55	12,198	57,486	6,429	11,467	30,824	85,959	124,015	1,767	10,574	63,021
2721	Periodicals.....	53	5	481	2,203	63	126	218	4,652	7,275	38	912	5,334
273	Books.....	70	18	4,399	18,411	2,790	5,242	10,477	43,485	(2)	1,860	2,848	20,065
2731	Books; publishing and printing.	39	8	1,412	6,516	194	343	520	27,694	46,236	742	2,440	17,882
2732	Book printing.....	31	10	2,986	11,894	2,595	4,899	9,956	15,791	22,981	1,117	408	2,183
2741	Miscellaneous publishing.....	34	12	1,468	5,568	856	1,703	3,021	8,968	14,061	207	905	3,240
2751	Commercial printing.....	551	70	6,590	24,639	5,173	9,907	17,750	37,012	59,321	1,832	8,005	33,831
2761	Lithographing.....	96	29	3,287	13,603	2,630	5,127	9,630	20,851	34,287	1,250	1,983	9,687
2771	Greeting cards.....	19	10	2,821	8,875	1,922	3,467	4,685	13,985	19,968	2,267	2,634	10,778

See footnotes at end of table.

## MANUFACTURES—AREA STATISTICS

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
	Printing and publishing—Con.												
278	Bookbinding and related industries.....	82	25	3,443	10,924	2,940	5,504	8,970	15,882	(2)	867	4,622	18,436
2781	Bookbinding.....	37	14	1,296	4,560	1,152	2,085	3,853	5,783	8,011	393	2,620	10,637
279	Printing trade services.....	106	24	1,667	8,272	1,274	2,334	6,096	11,114	13,495	439	2,081	10,275
2791	Typesetting.....	38	6	487	2,147	404	719	1,644	3,007	3,380	76	678	2,989
2792	Engraving and plate printing...	22	2	278	1,080	202	388	716	1,560	2,055	19	(D)	(D)
2793	Photoengraving.....	34	11	553	3,062	400	744	2,282	3,627	4,547	172	666	3,653
2794	Electrotyping and stereotyping.	12	5	342	1,976	260	477	1,446	2,913	3,508	166	(D)	(D)
28	Chemicals and products.....	426	123	15,587	69,718	10,077	19,847	37,946	186,543	(2)	13,757	17,983	144,644
281	Inorganic chemicals.....	12	4	281	1,249	210	441	833	3,106	6,610	137	1,347	(D)
2819	Inorganic chemicals, n.e.c.....	12	4	281	1,249	210	441	833	3,106	6,610	137	1,347	(D)
282	Organic chemicals.....	40	22	5,283	25,255	3,424	6,863	14,073	59,195	(2)	10,259	3,915	23,672
2823	Plastics materials.....	18	9	3,096	15,181	1,884	3,814	8,003	36,110	96,321	5,319	3,210	18,428
2829	Organic chemicals, n.e.c.....	12	6	372	1,761	258	531	1,013	6,476	14,917	(D)	(D)	(D)
283	Drugs and medicines.....	43	14	1,179	4,870	804	1,507	2,210	10,977	(2)	(D)	1,002	7,888
284	Soap and related products....	129	21	3,253	15,081	1,962	3,745	7,641	57,702	(2)	1,071	4,183	47,294
2841	Soap and glycerin.....	25	7	1,692	7,597	1,195	2,235	4,880	37,612	67,438	465	1,881	31,724
2842	Cleaning and polishing products	89	11	1,395	6,446	685	1,353	2,399	17,951	33,738	573	2,101	13,315
2843	Sulfonated oils & assistants...	15	3	165	1,037	82	155	361	2,138	4,746	33	201	2,255
285	Paints and allied products...	70	21	1,800	7,641	1,089	2,177	3,659	18,886	(2)	394	1,696	12,675
287	Fertilizers.....	8	5	246	853	186	417	615	1,951	(2)	126	391	1,738
288	Vegetable and animal oils....	15	10	426	1,781	316	667	1,313	4,066	(2)	86	284	7,697
2886	Grease and tallow.....	11	8	360	1,429	262	539	1,023	3,474	9,337	64	(D)	(D)
289	Chemical products, n.e.c.....	104	26	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2894	Glue and gelatin.....	27	12	1,622	7,532	1,215	2,400	5,042	16,927	37,030	(D)	(D)	(D)
2896	Compressed and liquefied gases.	8	5	259	976	131	273	482	2,230	3,204	275	236	1,455
2899	Chemical products, n.e.c.....	38	8	685	2,585	369	677	957	5,729	10,147	91	2,517	16,027
29	Petroleum and coal products	29	11	2,265	11,563	1,761	4,012	8,474	22,909	(2)	3,935	2,540	26,155
295	Paving and roofing materials.	18	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2951	Paving mixtures and blocks....	13	5	285	1,421	224	552	1,032	3,024	8,261	155	(D)	(D)
299	Petroleum and coal products, n.e.c.....	8	1	107	465	51	102	179	863	(2)	22	(D)	(D)
30	Rubber products.....	110	58	24,634	101,083	19,649	38,870	72,849	185,373	(2)	8,776	26,409	132,469
3099	Rubber industries, n.e.c.....	103	52	14,890	59,432	11,579	23,031	40,523	108,885	210,438	4,719	10,472	53,271
31	Leather and leather goods..	846	454	65,568	200,805	58,456	104,344	158,449	296,637	(2)	4,398	70,928	326,402
3111	Leather tanning and finishing	181	78	9,913	39,352	8,677	16,188	31,619	63,394	171,934	1,787	12,206	119,065
3131	Footwear cut stock.....	285	121	8,590	24,897	7,410	13,642	18,334	38,126	102,299	673	7,886	38,168
314	Footwear, except rubber.....	259	216	43,238	124,928	39,037	68,193	99,820	176,271	(2)	1,633	46,478	151,820
3141	Footwear, except rubber.....	226	195	41,069	119,403	37,052	65,001	95,393	168,367	322,327	1,450	44,254	143,921
3142	House slippers.....	33	21	2,169	5,525	1,984	3,191	4,427	7,903	15,815	183	2,224	7,899
3161	Luggage.....	24	12	830	2,336	751	1,418	1,841	3,886	8,040	61	671	2,889
317	Purses and small leather goods.....	41	16	2,178	6,768	1,939	3,710	5,170	10,101	(2)	(D)	2,334	7,688
319	Miscellaneous leather goods..	33	7	424	1,139	340	636	762	1,836	(2)	34	544	(D)
32	Stone, clay, and glass products.....	268	61	10,399	44,795	7,533	15,207	29,313	76,191	(2)	4,338	10,481	56,539
3231	Products of purchased glass..	21	2	211	802	145	284	506	799	1,296	(D)	693	1,369
325	Structural clay products.....	11	8	574	2,054	510	1,146	1,698	3,071	(2)	151	312	1,228
327	Concrete and plaster products	114	16	1,576	6,563	1,220	2,757	4,752	12,817	(2)	682	1,111	6,832
3271	Concrete products.....	105	11	1,081	4,344	805	1,805	3,038	7,689	14,590	496	759	4,039
329	Nonmetallic mineral products, n.e.c.....	68	29	6,995	31,365	4,762	9,310	19,244	53,737	(2)	3,379	7,750	44,492
3291	Abrasive products.....	30	17	5,740	26,967	3,766	7,386	16,150	46,664	85,620	3,054	6,000	35,450
3293	Gaskets & asbestos insulations.	12	4	628	2,426	467	900	1,573	3,453	5,898	134	(D)	(D)
33	Primary metal industries...	232	114	18,787	84,197	15,564	31,115	64,881	139,652	(2)	4,872	20,230	90,246
332	Iron and steel foundries.....	69	42	4,380	17,800	3,921	7,780	14,882	28,058	(2)	1,090	5,144	22,758
3321	Gray-iron foundries.....	63	36	3,492	14,217	3,196	6,373	12,171	23,157	33,228	844	4,435	19,448
3341	Secondary nonferrous metals..	12	5	222	1,137	160	357	543	3,038	17,681	104	(D)	(D)
335	Nonferrous rolling & drawing.	15	7	1,301	5,703	971	1,995	3,814	9,331	(2)	260	(D)	(D)
3359	Rolling and drawing, n.e.c.....	8	3	323	1,294	240	532	806	3,035	11,294	(D)	(D)	(D)
3361	Nonferrous foundries.....	82	22	1,681	6,295	1,507	3,062	5,160	9,477	17,361	212	1,649	6,548
339	Primary metal industries, n.e.c.....	51	35	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3391	Iron and steel forgings.....	13	10	2,721	12,904	2,235	4,585	10,382	20,224	41,498	1,151	2,413	10,987
3392	Wire drawing.....	20	14	4,578	21,429	3,735	7,377	16,408	39,291	80,693	1,479	5,360	23,687

See footnotes at end of table.



Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establish- ments, number		All employees		Production workers			Value added by manufacture	Value of shipments	Capital expendi- tures, new	All employees, number	Value added by manufacture
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
34	Fabricated metal products..	960	295	35,934	144,117	28,898	59,577	102,438	265,977	(2)	8,547	40,686	205,547
342	Cutlery, tools, and hardware.	128	50	10,378	41,444	8,151	16,095	29,175	97,709	(2)	2,515	14,145	79,480
3421	Cutlery.....	8	6	3,158	12,943	2,299	4,375	7,977	45,322	56,872	787	5,087	33,714
3423	Handtools, n.e.c.....	28	10	2,057	8,150	1,649	3,344	5,873	13,724	20,959	203	3,539	14,314
3425	Handsaws and saw blades.....	5	4	1,638	7,362	1,337	2,614	5,661	18,168	25,753	437	2,159	14,989
3429	Hardware, n.e.c.....	44	11	2,183	7,656	1,804	3,623	5,987	11,882	23,890	503	2,080	10,016
343	Heating and plumbing equip- ment.....	44	12	1,085	4,658	862	1,876	3,306	7,989	(2)	149	(D)	(D)
3431	Plumbing fixtures and fittings.	13	2	113	363	97	175	275	585	1,290	14	(D)	(D)
3439	Heating and cooking equip., nec	31	10	972	4,294	764	1,701	3,030	7,403	14,111	135	3,247	17,560
344	Structural metal products....	273	73	5,812	24,978	4,561	9,122	16,981	39,286	(2)	1,529	4,628	23,299
3441	Structural & ornamental work...	85	22	1,997	9,409	1,520	3,024	6,043	14,617	28,578	326	1,340	7,003
3442	Metal doors, sash, and trim....	48	11	881	3,403	687	1,368	2,374	5,966	12,595	323	157	716
3443	Boiler shop products.....	42	19	1,324	5,742	1,065	2,190	4,104	9,077	17,120	499	1,706	8,805
3444	Sheet-metal work.....	98	21	1,608	6,424	1,288	2,539	4,458	9,624	17,680	380	1,425	6,775
346	Metal stamping and coating...	279	76	5,855	21,811	4,968	10,251	15,667	33,889	(2)	1,108	5,378	23,519
3461	Vitreous-enameled products.....	6	4	274	990	218	493	698	1,303	2,198	(D)	190	637
3463	Metal stampings.....	97	39	3,397	13,134	2,838	5,851	9,171	19,784	32,939	622	3,200	14,702
3465	Enameling and lacquering.....	22	2	176	561	153	327	450	791	1,203	(D)	(D)	(D)
3468	Plating and polishing.....	112	23	1,512	5,188	1,330	2,702	4,003	8,790	11,495	346	1,356	5,413
3471	Lighting fixtures.....	32	11	2,174	8,830	1,718	3,543	5,983	18,393	34,214	361	3,489	19,463
348	Fabricated wire products.....	50	28	2,665	10,152	2,208	4,570	7,596	16,729	(2)	555	2,746	11,022
3481	Nails and spikes.....	10	7	388	1,333	340	749	1,042	2,241	4,360	96	(D)	(D)
3489	Wirework, n.e.c.....	40	21	2,277	8,819	1,867	3,821	6,554	14,488	24,760	458	(D)	(D)
349	Metal products, n.e.c.....	147	41	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3494	Bolts, nuts, washers, & rivets.	24	15	4,933	20,603	3,849	8,764	15,227	33,419	50,767	1,461	4,108	18,485
3495	Screw machine products.....	83	18	1,869	7,338	1,620	3,441	5,496	11,237	17,209	437	1,888	8,074
3499	Fabricated metal products,nec..	34	6	467	1,456	386	733	1,038	2,561	4,435	112	186	1,088
35	Machinery, except electri- cal.....	1,152	363	76,363	333,419	56,145	111,857	222,468	537,458	(2)	24,330	86,818	386,936
351	Engines and turbines.....	7	5	8,295	42,497	5,335	11,205	26,229	64,047	(2)	(D)	4,866	(D)
352	Tractors and farm machinery..	14	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3522	Farm machinery (exc. tractors).	11	2	141	520	119	238	387	779	1,907	(D)	157	823
353	Construction and mining ma- chinery.....	20	9	524	2,388	372	757	1,458	3,939	(2)	(D)	294	(D)
354	Metal working machinery.....	314	95	16,580	73,336	12,594	25,220	49,528	128,529	(2)	5,767	14,794	67,391
3541	Machine tools.....	43	22	6,233	29,960	4,368	8,754	18,457	57,807	78,267	1,570	4,103	18,084
3542	Metal working machinery.....	17	5	996	5,417	744	1,672	3,141	8,921	13,500	1,152	1,052	5,874
3544	Special dies and tools.....	194	35	2,541	11,777	2,028	4,383	8,430	16,722	21,934	1,103	9,639	43,433
3545	Metalworking mach. attachments.	60	33	6,808	26,180	5,452	10,409	19,499	45,078	57,724	1,941		
355	Special-industry machinery, n.e.c.....	235	103	22,350	94,163	15,976	31,201	59,497	136,712	(2)	5,752	31,378	136,863
3551	Food-products machinery.....	20	7	1,377	6,573	805	1,707	3,379	10,695	16,424	523	(D)	(D)
3552	Textile machinery.....	98	41	11,271	43,620	8,388	16,092	28,441	61,782	101,474	2,559	20,169	87,914
3554	Paper-industries machinery....	33	23	2,558	12,422	1,878	3,998	7,954	20,103	35,241	(D)	2,573	13,635
3559	Special-industry mach., n.e.c..	50	24	6,276	27,725	4,282	8,102	17,261	37,847	54,383	1,515	6,525	23,224
356	General industrial machinery.	104	48	7,273	29,386	5,532	10,906	21,060	50,805	(2)	1,612	12,560	56,888
3562	Elevators and escalators.....	6	3	271	1,131	182	372	747	1,612	2,893	41	(D)	(D)
3563	Conveyors.....	14	6	394	1,758	299	610	1,186	2,727	4,485	87	(D)	(D)
3565	Industrial trucks and tractors.	10	3	628	2,553	439	908	2,097	5,695	8,418	26	(D)	(D)
3566	Power-transmission equipment...	25	17	3,884	15,597	3,126	6,027	11,757	24,677	34,551	943	2,797	12,074
3569	General industrial mach., nec..	18	9	1,017	4,039	756	1,528	2,660	7,481	11,449	172	3,528	18,080
357	Office and store machines....	20	9	1,780	6,665	1,139	2,296	3,896	11,238	(2)	297	131	(D)
358	Service and household ma- chines.....	33	13	8,640	40,035	6,536	12,733	28,229	69,941	(2)	5,215	10,099	45,437
3585	Refrigeration machinery.....	13	6	6,234	28,584	4,799	9,249	20,798	52,821	(2)	4,398	(D)	(D)
359	Miscellaneous machinery parts	405	78	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3591	Valves & fittings, exc. plbg...	36	18	5,418	21,921	4,152	8,182	15,582	37,845	56,889	1,373	5,220	23,344
3594	Industrial patterns and molds..	91	20	1,373	6,639	1,160	2,538	5,027	9,098	11,136	438	(D)	(D)
3599	Machine shops.....	267	36	3,657	14,545	2,962	6,072	10,648	22,023	31,366	866	2,138	8,423
36	Electrical machinery.....	324	169	74,928	285,821	56,773	113,314	192,231	551,156	(2)	21,062	55,711	256,151
361	Electrical industrial appa- ratus.....	94	51	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3613	Elec. measuring instruments....	19	11	5,938	27,378	3,784	7,506	14,503	47,846	63,131	1,140	(D)	(D)
3616	Electrical control apparatus...	19	11	3,310	13,590	2,252	4,528	9,048	21,777	37,104	(D)	(D)	(D)
3619	Elec. industrial apparatus, nec	12	5	2,447	7,830	1,880	3,549	5,232	16,244	24,506	196	(D)	(D)
3631	Insulated wire and cable.....	24	14	2,800	10,538	2,159	4,316	6,765	19,342	42,933	640	2,381	(D)
3641	Engine electrical equipment...	12	9	1,922	7,295	1,502	2,875	4,883	9,857	18,439	265	(D)	(D)
3651	Electric lamps (bulbs).....	5	5	2,414	8,734	2,083	3,839	7,009	29,202	43,352	825	3,667	20,324
366	Communication equipment.....	148	77	38,627	131,145	31,063	62,056	95,123	255,216	(2)	7,340	18,668	73,985
3661	Radios and related products....	110	49	18,409	59,174	14,740	29,043	42,346	126,212	(2)	3,300	12,383	42,157
369	Electrical products, n.e.c....	29	10	1,412	5,398	1,145	2,252	3,656	9,897	(2)	712	620	4,139
3699	Electrical products, n.e.c.....	12	3	441	1,504	365	700	1,036	3,470	6,450	48	(D)	(D)

See footnotes at end of table.



## MANUFACTURES—AREA STATISTICS

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
37	Transportation equipment...	158	67	23,599	112,548	17,742	35,892	79,558	216,744	(2)	6,267	18,281	80,185
371	Motor vehicles and equipment.	43	17	5,937	28,945	5,015	11,075	23,177	73,497	(2)	1,594	3,757	24,313
3713	Truck and bus bodies.....	19	6	294	1,134	237	492	813	1,661	3,115	71	(D)	(D)
3717	Motor vehicles and parts.....	19	9	4,997	25,633	4,222	9,551	20,560	68,060	(2)	1,448	3,073	21,477
372	Aircraft and parts.....	26	21	10,238	49,933	7,342	14,744	33,307	90,827	(2)	3,294	(D)	(D)
3722	Aircraft engines.....	14	11	5,594	28,355	4,015	8,129	19,121	52,098	96,375	1,939	(D)	(D)
373	Ships and boats.....	83	25	6,185	28,559	4,384	8,161	19,137	40,916	(2)	1,301	6,006	21,095
38	Instruments and related products.....	163	70	17,948	71,180	13,252	26,340	45,255	130,113	(2)	5,841	16,055	75,700
3811	Scientific instruments.....	23	12	2,387	10,294	1,693	3,367	6,168	16,514	23,219	807	549	2,652
384	Medical equipment and supplies.....	52	13	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3842	Surgical appliances & supplies.	26	4	682	2,067	569	1,070	1,539	6,461	9,072	50	780	3,762
3861	Photographic equipment.....	9	2	1,795	7,660	1,175	2,421	4,241	11,838	20,323	1,821	1,269	5,451
3871	Watches and clocks.....	10	5	2,536	10,135	1,806	3,392	5,852	17,468	30,599	236	(D)	(D)
39	Miscellaneous manufactures <sup>5</sup>	714	283	43,723	154,457	34,682	69,206	106,334	252,258	447,167	10,999	42,073	176,806
391	Jewelry and silverware.....	133	59	7,535	29,118	5,827	12,320	18,410	43,827	(2)	1,149	(D)	(D)
3911	Jewelry (precious metal).....	67	26	3,091	12,019	2,337	5,026	7,004	15,160	23,506	292	(D)	(D)
3912	Jewelers' findings.....	22	13	1,381	5,815	1,078	2,422	3,819	10,157	22,408	559	1,829	9,241
393	Musical instruments and parts	20	6	414	1,453	344	662	1,076	1,718	(2)	57	(D)	(D)
394	Toys and sporting goods.....	94	47	7,406	23,230	5,849	10,927	15,857	37,755	(2)	1,043	8,036	30,856
3941	Games and toys, n.e.c.....	38	19	2,856	8,341	2,114	4,005	4,952	15,147	26,154	318	(D)	(D)
3949	Sporting and athletic goods....	32	11	2,893	9,421	2,383	4,398	7,139	14,618	27,037	530	(D)	(D)
395	Office supplies.....	39	6	602	1,905	404	772	1,047	3,828	(2)	60	759	4,187
3953	Hand stamps and stencils.....	24	2	182	491	141	277	348	902	1,414	(D)	276	1,077
396	Costume jewelry and notions..	64	24	4,398	14,585	3,679	7,071	10,381	23,436	(2)	694	5,074	23,253
3961	Costume jewelry.....	38	16	3,592	12,104	2,958	5,695	8,343	18,777	28,803	(D)	(D)	(D)
3963	Buttons.....	7	2	105	250	94	175	206	386	536	(D)	347	738
3964	Needles, pins, and fasteners...	11	6	649	2,125	585	1,128	1,753	3,753	5,100	109	1,698	9,120
3971	Plastic products, n.e.c.....	159	73	10,481	35,409	8,701	17,640	25,663	61,224	116,590	6,202	7,839	28,409
398	Miscellaneous manufactures <sup>5</sup> ..	205	68	12,884	48,754	9,873	19,811	33,897	80,467	(2)	1,154	10,746	46,892
3981	Brooms and brushes.....	30	11	1,109	4,180	876	1,696	2,708	5,281	11,530	110	2,175	12,301
3984	Candles.....	4	2	121	302	97	185	229	587	949	(D)	(D)	(D)
3986	Jewelry and instrument cases...	12	5	1,689	5,595	1,299	2,402	3,535	7,336	12,051	142	1,882	6,319
3988	Morticians' goods.....	15	6	572	1,940	479	1,035	1,487	2,837	5,061	89	627	2,964
3993	Signs and advertising displays.	68	9	710	2,704	522	1,064	1,905	4,209	6,533	88	844	3,099
1900	Ordnance and accessories.....	21	17	6,465	26,409	4,834	10,048	18,801	49,825	(2)	638	(D)	(D)

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industries (4-digit) and industry groups (3-digit) are not shown. Industries and industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "all industries" line.<sup>2</sup>The total value of shipments figures for industry groups and a few individual industries have not been published due to the extensive and unmeasurable duplication arising from shipments from one establishment to another in the same industry classification. (See Introduction.)<sup>3</sup>The 1954 and 1947 "all industries" totals are not strictly comparable because of differences in scope between the two years in Major groups 20 and 24 (see footnote 4).<sup>4</sup>Comparable data for Major groups 20 and 24 are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude establishments in S.I.C. Industry 2411, Logging Camps and Contractors, which are included in the scope of the 1954 Census; the 1947 Census also excludes plants processing and distributing fluid milk which in 1954 were classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
20	Food and kindred products except sub-group 202, Dairy products.....	38,500	242,000	42,504	214,196
24	Lumber and wood products except Industry 2411, Logging camps and contractors.....	5,951	28,514	7,460	28,475

<sup>5</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)

Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947

(For explanation of column captions see Introduction)

Code	Industry group	Establishments, number	1954							1947	
			All employees		Production workers			Value added by manufacture	Capital expenditures, new	All employees, number	Value added by manufacture
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
BOSTON STANDARD METROPOLITAN AREA <sup>1</sup>											
	All industries, total <sup>2</sup> ...	5,474	280,274	1,106,467	211,005	413,125	730,571	1,972,147	68,241	<sup>3</sup> 270,932	<sup>3</sup> 1,377,383
20	Food and kindred products...	612	29,882	111,613	19,993	39,131	64,030	194,678	8,461	(4)	(4)
201	Meat products.....	59	3,766	16,079	2,887	6,016	11,304	28,048	1,123	4,216	19,477
202	Dairy products.....	121	5,019	20,215	2,120	4,394	7,304	38,004	1,593	(4)	(4)
203	Canned and frozen foods.....	65	1,562	5,599	1,306	2,417	3,550	10,434	555	1,250	6,779
205	Bakery products.....	129	7,069	25,783	4,315	8,567	14,221	41,414	1,501	8,241	37,263
207	Candy and related products....	56	6,591	21,122	5,440	10,353	15,030	31,670	1,025	8,223	43,888
208	Beverages.....	61	1,951	7,860	1,046	1,967	3,201	16,279	734	2,602	15,867
209	Miscellaneous foods	105	1,963	6,517	1,361	2,475	3,530	12,836	1,320	2,127	13,883
21	Tobacco manufactures.....	11	306	(D)	266	(D)	(D)	(D)	(D)	290	980
22	Textile mill products.....	138	8,120	30,268	6,536	13,088	20,233	55,553	1,617	10,314	43,544
221	Woolen and worsted manufacture.	16	974	3,876	836	1,700	2,530	5,732	213	1,154	4,168
222	Yarn and thread mills.....	7	455	1,621	397	781	1,059	2,845	18	498	2,148
223	Broad-woven fabrics.....	4	647	1,845	612	1,121	1,649	2,009	17	(D)	(D)
224	Narrow fabric mills.....	10	548	1,683	463	607	1,022	2,459	142	312	1,710
225	Knitting mills.....	29	1,451	5,064	1,154	2,286	3,292	9,527	350	2,073	7,706
226	Finishing textiles, exc. wool..	10	1,085	4,660	698	1,383	2,397	9,303	312	927	2,862
227	Carpets and rugs.....	6	1,306	5,393	1,092	2,415	4,260	12,710	195	(D)	(D)
229	Miscellaneous textile goods....	56	1,652	6,125	1,281	2,793	4,020	10,966	367	1,592	8,734
23	Apparel & related products..	807	24,876	73,908	22,049	40,503	56,579	119,242	1,700	24,301	98,421
231	Men's & boys' suits & coats....	87	4,110	13,739	3,664	6,247	10,743	18,118	174	5,915	25,557
232	Men's & boys' furnishings.....	111	2,315	6,211	1,997	3,605	4,621	8,998	82	3,164	11,547
233	Women's & misses' outerwear....	294	9,880	31,020	8,786	17,098	23,700	55,235	595	7,429	32,110
234	Women's undergarments.....	19	913	2,448	809	1,324	1,878	4,646	35	870	3,840
236	Children's outerwear.....	19	597	1,527	536	905	1,158	2,347	21	569	1,828
238	Miscellaneous apparel.....	59	3,126	8,300	2,785	4,818	6,507	13,661	115	2,145	8,044
239	Fabricated textiles, n.e.c.....	193	2,925	8,028	2,498	4,591	5,554	12,815	668	3,420	12,483
24	Lumber and wood products....	138	1,902	6,444	1,511	2,870	4,459	9,079	241	2,103	8,593
243	Millwork and related products..	67	815	3,174	606	1,229	2,179	4,469	113	(D)	(D)
249	Miscellaneous wood products....	49	755	2,379	616	1,127	1,605	3,708	85	821	3,362
25	Furniture and fixtures.....	240	4,611	15,726	3,745	7,190	11,359	26,511	395	4,387	20,349
251	Household furniture.....	159	3,459	11,738	2,846	5,418	8,543	20,669	264	3,225	15,458
254	Partitions and fixtures.....	39	628	2,468	489	962	1,687	3,499	51	621	2,729
256	Screens, shades, and blinds....	24	269	698	198	407	489	1,224	39	258	1,000
26	Pulp, paper and products....	133	10,336	38,810	7,965	16,660	25,586	70,637	6,250	11,451	62,831
261	Pulp, paper and board.....	5	968	4,337	825	1,878	3,499	7,755	880	1,026	6,408
264	Paper coating and glazing.....	5	112	484	96	196	315	704	(D)	(D)	(D)
265	Envelopes.....	5	279	950	240	382	625	1,637	(D)	(D)	(D)
266	Paper bags.....	12	402	1,312	344	671	953	1,976	76	(D)	(D)
267	Paperboard containers.....	49	4,153	14,400	3,520	7,219	10,757	26,872	772	4,702	25,067
269	Pulp,paper & products, n.e.c....	57	4,419	17,325	2,937	6,312	9,436	31,691	4,415	5,190	28,885
27	Printing and publishing.....	734	23,430	103,105	15,034	27,322	60,843	164,803	6,841	23,206	120,261
271	Newspapers.....	95	8,127	41,382	4,313	7,509	22,447	57,481	713	7,260	44,829
272	Periodicals.....	42	379	1,861	50	105	171	3,844	29	814	4,858
273	Books.....	57	3,299	13,991	1,928	3,537	7,182	35,748	1,335	2,595	17,273
274	Miscellaneous publishing.....	23	485	1,840	170	285	481	3,010	36	(D)	(D)
275	Commercial printing.....	318	3,930	15,798	3,049	5,749	11,267	23,148	1,010	4,709	20,965
276	Lithographing.....	62	2,348	9,751	1,862	3,536	6,839	14,793	754	1,431	6,479
277	Greeting cards.....	13	2,211	7,319	1,489	2,621	3,821	11,898	2,222	2,110	8,020
28	Chemicals and products.....	269	9,116	40,683	5,717	11,075	21,656	111,217	2,906	11,326	101,359
281	Inorganic chemicals.....	6	198	914	144	303	603	1,816	124	(D)	(D)
282	Organic chemicals.....	17	1,424	7,334	893	1,675	3,688	15,172	581	387	3,822
283	Drugs and medicines.....	28	637	2,333	351	642	992	4,831	(D)	(D)	(D)
284	Soap and related products.....	90	2,432	11,618	1,456	2,757	5,877	43,210	649	3,122	40,731
285	Paints and allied products....	44	1,544	6,484	918	1,834	3,069	16,453	296	1,505	10,982
287	Fertilizers.....	5	163	591	120	288	427	1,468	118	(D)	(D)
288	Vegetable and animal oils.....	8	244	1,014	165	343	665	2,407	56	(D)	(D)
289	Chemical products, n.e.c.....	67	2,444	10,257	1,650	3,200	6,277	25,538	(D)	3,780	28,957
29	Petroleum and coal products.	16	1,930	10,027	1,520	3,439	7,427	19,165	3,749	2,334	24,439
30	Rubber products.....	60	13,851	55,995	10,476	20,460	37,200	103,163	3,293	15,132	73,579
302	Rubber footwear.....	4	5,407	20,265	4,483	8,460	15,396	37,506	772	(D)	(D)
309	Rubber industries, n.e.c.....	56	8,444	35,730	5,993	12,000	21,804	65,657	2,521	(D)	(D)
31	Leather and leather goods...	423	24,956	83,726	22,040	40,186	65,283	130,384	1,898	28,281	170,287
311	Leather tanning and finishing..	150	7,860	31,286	6,877	12,595	25,152	53,915	1,173	9,960	102,772
313	Footwear cut stock.....	111	2,941	9,014	2,477	4,647	6,122	13,653	196	2,853	15,568
314	Footwear, except rubber.....	101	13,030	40,060	11,741	21,137	31,714	57,741	474	14,349	47,674
316	Luggage.....	15	282	957	253	497	711	1,569	27	260	1,111

See footnotes at end of table.



Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947—Continued

Code	Industry group	Establishments, number	1954							1947	
			All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
32	Stone, clay, & glass prod...	131	2,739	10,640	2,149	4,364	7,380	18,571	758	3,516	16,549
323	Products of purchased glass....	16	195	749	133	260	470	697	21	695	1,465
327	Concrete and plaster products..	44	872	3,834	663	1,505	2,744	7,851	261	573	3,891
329	Nonmetallic mineral prod., nec.	34	1,288	4,844	1,028	2,016	3,203	8,055	424	1,694	8,619
33	Primary metal industries....	85	3,195	14,121	2,724	5,724	10,887	23,496	942	3,902	18,263
332	Iron and steel foundries.....	19	1,613	7,274	1,381	2,933	5,978	11,432	518	2,325	10,487
336	Nonferrous foundries.....	38	799	3,015	720	1,493	2,436	4,393	91	729	2,686
339	Primary metal industries, n.e.c.	13	343	1,736	265	539	1,077	2,718	165	434	2,665
34	Fabricated metal products...	496	17,070	70,076	13,409	27,475	48,124	140,993	4,201	17,109	91,913
341	Tin cans and other tinware....	6	351	1,417	297	602	1,027	2,519	253	(D)	(D)
342	Cutlery, tools, and hardware...	50	3,638	14,768	2,589	4,964	8,841	49,026	917	5,639	37,211
343	Heating and plumbing equipment.	31	562	2,170	446	842	1,538	3,720	72	854	3,802
344	Structural metal products.....	173	3,884	16,521	3,039	5,997	11,215	25,866	897	3,454	17,061
346	Metal stamping and coating....	120	2,625	9,747	2,223	4,603	7,136	16,032	441	1,924	7,866
347	Lighting fixtures.....	23	1,351	6,243	1,000	2,177	4,021	12,085	277	1,631	10,332
348	Fabricated wire products.....	18	513	1,905	445	835	1,404	3,037	113	(D)	(D)
349	Metal products, n.e.c.....	75	4,144	17,304	3,367	7,451	12,939	28,705	1,227	2,673	11,462
35	Machinery, exc. electrical..	522	27,070	118,875	18,909	38,084	75,900	188,658	9,114	25,697	113,111
354	Metalworking machinery.....	110	2,027	8,599	1,594	3,416	6,073	14,091	587	1,560	6,878
355	Special-industry mach., n.e.c..	86	7,011	31,154	4,741	9,115	18,834	43,209	2,203	7,939	32,513
356	General industrial machinery...	66	4,161	16,928	3,033	6,093	11,765	29,264	755	6,903	33,013
357	Office and store machines.....	9	1,091	4,183	618	1,298	2,355	5,955	109	(D)	(D)
358	Service and household machines.	21	2,360	10,221	1,738	3,360	6,588	20,785	1,863	(D)	(D)
359	Miscellaneous machinery parts..	208	5,611	22,727	4,325	8,623	15,838	36,123	1,126	4,612	19,044
36	Electrical machinery.....	202	42,213	166,858	31,356	63,823	110,142	310,148	7,265	30,089	134,674
361	Elec. industrial apparatus....	67	14,342	65,100	9,261	18,852	37,709	110,011	2,465	(D)	(D)
363	Insulated wire and cable.....	6	1,212	5,031	869	1,734	3,062	10,048	177	(D)	(D)
365	Electric lamps (bulbs).....	5	2,414	8,734	2,083	3,839	7,009	29,202	825	3,667	20,324
366	Communication equipment.....	96	22,666	82,294	17,811	36,822	58,365	151,203	3,319	8,773	30,055
369	Electrical products, n.e.c.....	21	840	3,458	673	1,339	2,259	6,199	449	(D)	(D)
37	Transportation equipment....	67	18,503	93,647	13,390	27,253	64,205	185,202	5,530	13,121	61,112
371	Motor vehicles and equipment...	24	4,566	23,710	3,846	8,499	18,837	64,525	1,317	(D)	(D)
372	Aircraft and parts.....	14	8,504	43,825	5,815	12,001	28,339	83,202	3,070	(D)	(D)
38	Instruments & related prod..	114	8,145	33,828	5,829	11,452	20,252	53,901	1,869	6,927	27,342
381	Scientific instruments.....	17	2,259	9,750	1,608	3,206	5,863	15,501	799	(D)	(D)
382	Mechanical measuring instruments	25	2,080	9,428	1,438	2,969	5,531	16,083	467	962	4,658
383	Optical instruments and lenses.	14	467	2,265	265	529	1,076	3,023	90	247	803
384	Medical equipment and supplies.	40	744	2,652	558	1,072	1,607	3,772	73	1,196	4,793
39	Miscellaneous manufactures <sup>5</sup> .	276	8,016	(D)	6,378	(D)	(D)	(D)	(D)	7,842	35,052
391	Jewelry and silverware.....	30	266	886	226	449	631	1,585	14	338	1,325
393	Musical instruments and parts..	17	373	1,315	306	587	950	1,546	53	375	1,613
394	Toys and sporting goods.....	34	1,077	3,420	889	1,662	2,229	7,638	113	951	3,212
395	Office supplies.....	18	441	1,392	271	521	677	2,918	35	496	2,985
396	Costume jewelry and notions....	22	295	742	262	472	574	1,408	16	1,608	8,320
397	Plastics products, n.e.c.....	52	1,810	6,410	1,489	3,077	4,543	10,367	434	1,158	4,644
"All manufacturing" totals for the Providence Standard Metropolitan Area (which includes parts of Bristol, Norfolk and Worcester Counties in Massachusetts) appear in Table 3. Industry group statistics for this area are shown in the 1954 Census of Manufactures report for the State of Rhode Island											
SPRINGFIELD-HOLYOKE STANDARD METROPOLITAN AREA <sup>6</sup>											
	All industries, total <sup>2</sup> ...	896	74,350	302,543	58,281	115,862	215,158	501,938	27,595	381,598	3373,118
20	Food and kindred products...	140	4,183	16,189	2,271	4,691	7,845	23,526	1,415	( <sup>4</sup> )	( <sup>4</sup> )
201	Meat products.....	11	761	3,276	564	1,218	2,352	2,718	237	821	3,164
202	Dairy products.....	55	1,126	4,133	477	1,023	1,615	6,922	414	( <sup>4</sup> )	( <sup>4</sup> )
205	Bakery products.....	32	1,548	5,833	841	1,660	2,677	8,918	581	(D)	(D)
208	Beverages.....	25	483	1,885	226	471	791	3,284	154	557	4,082
209	Miscellaneous foods.....	10	212	968	115	229	321	1,541	26	215	1,144
21	Tobacco manufactures.....	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	38	82
22	Textile mill products.....	34	7,985	28,191	6,906	13,318	22,062	40,194	954	11,723	47,480
222	Yarn and thread mills.....	3	433	1,173	413	771	1,065	2,029	40	1,245	6,322
223	Broad-woven fabrics.....	6	1,352	4,589	1,202	2,380	3,585	7,117	116	1,710	5,494
224	Narrow fabric mills.....	5	785	2,539	732	1,441	2,129	3,161	52	(D)	(D)
225	Knitting mills.....	8	955	3,085	857	1,705	2,380	4,271	102	148	6,530
229	Miscellaneous textile goods....	5	609	2,221	493	932	1,626	3,562	105	876	3,165
23	Apparel & related products..	55	4,410	12,470	4,131	7,940	10,705	18,603	267	2,989	9,611
232	Men's and boys' furnishings...	5	114	381	100	235	318	548	5	(D)	(D)
233	Women's and misses' outerwear.	18	1,131	3,294	1,077	2,061	2,911	5,162	17	816	2,808
234	Women's undergarments.....	7	1,437	3,859	1,367	2,573	3,375	4,200	132	768	1,865
235	Millinery.....	5	586	1,452	559	1,113	1,292	1,817	9	(D)	(D)
239	Fabricated textiles, n.e.c.....	13	591	1,740	512	938	1,269	4,589	99	247	885

See footnotes at end of table.



Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947—Continued

Code	Industry group	Establishments, number	1954							1947	
			All employees		Production workers			Value added by manufacture	Capital expenditures, new	All employees, number	Value added by manufacture
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
24	Lumber and wood products....	27	546	1,925	444	897	1,418	3,648	123	927	4,192
244	Wooden containers.....	9	154	449	139	266	359	827	36	241	1,248
249	Miscellaneous wood products....	6	342	1,308	261	545	928	2,577	67	(D)	(D)
25	Furniture and fixtures.....	27	806	3,385	691	1,358	2,565	5,810	62	519	2,501
251	Household furniture.....	16	722	3,129	626	1,231	2,372	5,460	52	427	2,086
26	Pulp, paper and products....	70	7,271	28,978	5,907	12,482	20,933	47,945	4,924	7,687	36,854
261	Pulp, paper and board.....	20	3,370	14,180	2,797	6,287	10,887	23,287	2,593	3,585	18,307
264	Paper coating and glazing.....	8	703	2,946	524	1,151	1,843	5,027	345	(D)	(D)
267	Paperboard containers.....	15	1,036	4,038	860	1,708	2,809	7,803	257	(D)	(D)
269	Pulp, paper & products, n.e.c..	21	842	3,374	641	1,309	2,084	5,849	1,063	1,022	4,598
27	Printing and publishing....	119	4,627	16,088	3,239	6,347	10,890	28,035	1,387	4,153	21,232
271	Newspapers.....	13	869	3,247	317	643	1,377	5,937	165	(D)	(D)
275	Commercial printing.....	55	752	2,537	626	1,246	2,034	4,032	167	(D)	(D)
276	Lithographing.....	13	692	2,833	575	1,216	2,093	4,620	351	(D)	(D)
278	Bookbinding & related inds.....	8	1,373	4,358	1,144	2,231	3,669	7,204	348	(D)	(D)
279	Printing trade services.....	16	151	717	128	211	617	915	111	172	913
28	Chemicals and products.....	31	3,465	17,203	2,196	4,302	8,962	48,608	5,253	3,835	23,928
289	Chemical products, n.e.c.....	9	121	599	68	121	219	739	23	302	2,301
29	Petroleum and coal products.	3	34	(D)	22	(D)	(D)	(D)	(D)	...	...
30	Rubber products.....	8	3,364	(D)	2,811	(D)	(D)	(D)	(D)	4,778	(D)
309	Rubber industries, n.e.c.....	7	365	1,546	319	749	1,270	3,171	163	(D)	(D)
31	Leather and leather goods...	9	923	3,067	773	1,455	2,082	5,459	101	1,109	3,761
32	Stone, clay, & glass prod...	26	422	1,902	322	752	1,256	4,018	130	389	2,023
327	Concrete and plaster products..	12	124	495	99	245	385	1,046	50	(D)	(D)
33	Primary metal industries....	28	2,000	9,154	1,784	3,607	7,571	13,611	397	2,431	10,572
336	Nonferrous foundries.....	9	468	1,930	420	876	1,629	3,084	67	(D)	(D)
339	Primary metal industries, n.e.c.	8	1,080	5,251	963	1,953	4,425	7,979	269	1,461	6,374
34	Fabricated metal products...	86	3,126	13,704	2,640	5,529	10,094	22,649	810	4,145	19,540
342	Cutlery, tools, and hardware...	15	1,279	5,731	1,120	2,288	4,484	9,149	407	1,870	7,704
343	Heating and plumbing equipment.	4	462	2,292	364	925	1,605	3,914	66	536	3,595
344	Structural metal products.....	22	477	2,078	389	765	1,516	3,619	120	410	2,309
346	Metal stamping and coating....	25	362	1,616	316	618	1,039	2,537	103	737	3,269
348	Fabricated wire products.....	8	400	1,447	335	700	1,109	2,331	59	353	1,515
349	Metal products, n.e.c.....	12	144	538	114	229	339	1,098	53	(D)	(D)
35	Machinery, exc. electrical..	135	17,171	80,261	13,209	25,855	57,028	126,006	5,769	19,585	86,232
354	Metalworking machinery.....	58	2,108	10,296	1,649	3,268	7,190	16,458	960	(D)	(D)
355	Special-industry mach., n.e.c..	24	2,093	10,013	1,389	2,882	6,177	15,750	192	1,174	5,532
358	Service and household machines.	6	5,981	28,755	4,556	8,868	20,783	47,384	3,293	8,515	38,188
359	Miscellaneous machinery parts..	32	2,564	10,935	2,093	4,040	8,120	17,733	891	(D)	(D)
36	Electrical machinery.....	25	4,396	15,421	3,374	6,366	10,535	26,595	808	3,854	14,767
361	Elec. industrial apparatus....	7	832	3,789	612	1,237	2,638	10,801	203	(D)	(D)
364	Engine electrical equipment....	5	1,146	4,831	803	1,524	2,994	6,125	117	(D)	(D)
37	Transportation equipment....	9	1,233	4,506	1,038	1,934	3,555	6,695	263	2,312	(D)
38	Instruments & related prod..	4	704	3,463	427	940	2,003	5,498	74	236	(D)
39	Miscellaneous manufactures <sup>2</sup> .	56	7,661	(D)	6,076	(D)	(D)	(D)	(D)	7,736	31,579
394	Toys and sporting goods.....	11	2,800	9,255	2,145	3,928	6,234	15,192	545	2,614	8,523
397	Plastics products, n.e.c.....	18	1,464	5,050	1,138	2,296	3,787	8,195	806	(D)	(D)
WORCESTER STANDARD METROPOLITAN AREA <sup>7</sup>											
	All industries, total <sup>2</sup> ...	768	50,197	201,435	38,555	75,959	137,485	348,165	15,929	<sup>3</sup> 53,251	<sup>3</sup> 241,917
20	Food and kindred products...	94	2,363	8,948	1,235	2,533	3,809	16,424	1,017	( <sup>4</sup> )	( <sup>4</sup> )
201	Meat products.....	8	110	405	86	186	294	892	22	194	738
202	Dairy products.....	41	777	2,897	358	720	1,104	5,523	295	( <sup>4</sup> )	( <sup>4</sup> )
205	Bakery products.....	18	1,025	4,292	513	1,092	1,801	7,244	594	(D)	(D)
208	Beverages.....	17	262	870	130	271	337	1,577	44	241	1,173
21	Tobacco manufactures.....	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
22	Textile mill products.....	55	3,578	12,882	3,212	6,500	10,290	19,234	1,013	5,947	25,551
221	Woolen and worsted manufactures	22	1,582	5,728	1,415	2,883	4,632	7,811	317	2,737	11,344
224	Narrow fabric mills.....	3	106	356	95	212	272	525	20	(D)	(D)
225	Knitting mills.....	6	606	2,062	562	1,110	1,707	3,443	185	537	2,305
229	Miscellaneous textile goods....	15	501	2,252	420	913	1,688	3,965	177	599	3,959

See footnotes at end of table.

Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947—Continued

Code	Industry group	Establishments, number	1954							1947	
			All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
23	Apparel & related products..	69	2,508	6,614	2,214	3,813	4,900	10,724	182	1,736	5,361
232	Men's and boys' furnishings....	18	469	1,068	418	673	841	1,524	12	417	1,439
233	Women's and misses' outerwear..	21	711	1,744	652	1,041	1,383	2,594	51	470	1,598
234	Women's undergarments.....	6	694	2,082	602	1,187	1,520	3,632	103	684	1,915
238	Miscellaneous apparel.....	5	141	392	122	213	261	507	10	(D)	(D)
24	Lumber and wood products....	28	342	1,219	287	614	958	1,854	108	338	1,176
244	Wooden containers.....	8	229	843	198	440	665	1,285	92	(D)	(D)
25	Furniture and fixtures.....	22	364	1,302	303	621	983	2,283	124	231	785
251	Household furniture.....	14	190	632	153	293	433	1,169	57	163	526
26	Pulp, paper and products....	20	1,643	5,623	1,354	2,690	4,209	9,208	814	1,423	7,075
265	Envelopes.....	6	1,062	3,528	885	1,708	2,700	5,763	144	1,213	5,020
267	Paperboard containers.....	7	288	941	228	500	692	1,381	597	(D)	(D)
27	Printing and publishing....	64	1,844	7,174	1,170	2,191	4,139	10,466	318	1,443	7,422
28	Chemicals and products.....	20	571	2,154	368	760	1,081	4,583	142	401	2,338
283	Drugs and medicines.....	6	359	1,157	200	374	465	2,986	98	(D)	(D)
29	Petroleum and coal products..	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
30	Rubber products.....	5	407	1,522	353	748	1,119	2,360	31	(D)	(D)
309	Rubber industries, n.e.c.....	5	407	1,522	353	748	1,119	2,360	31	(D)	(D)
31	Leather and leather goods...	35	3,437	10,332	3,026	5,438	7,706	14,931	458	4,671	18,487
311	Leather tanning and finishing..	6	403	1,591	333	648	1,070	1,409	259	484	2,138
313	Footwear cut stock.....	7	332	1,020	286	530	742	1,560	22	(D)	(D)
314	Footwear, except rubber.....	11	2,351	6,602	2,119	3,724	5,050	9,170	105	3,202	10,345
32	Stone, clay, & glass prod...	17	4,941	23,345	3,173	6,135	14,174	39,485	2,776	5,174	29,971
33	Primary metal industries....	36	7,828	37,955	6,198	12,293	28,761	63,767	2,315	7,964	32,779
339	Primary metal industries, n.e.c.	17	4,900	24,402	3,899	8,032	18,854	42,359	2,060	4,033	18,317
34	Fabricated metal products...	110	4,562	18,053	3,659	7,658	12,300	27,014	1,435	5,237	22,552
342	Cutlery, tools, and hardware...	18	711	2,748	590	1,203	2,022	4,253	452	663	2,406
346	Metal stamping and coating....	34	1,133	4,427	912	1,868	2,849	6,583	310	1,399	6,130
348	Fabricated wire products.....	11	936	3,654	749	1,563	2,625	5,899	172	(D)	(D)
349	Metal products, n.e.c.....	21	1,451	5,725	1,147	2,493	3,839	8,046	394	2,109	9,604
35	Machinery, exc. electrical..	116	9,267	43,116	6,477	13,035	26,251	76,385	3,520	11,203	56,866
354	Metalworking machinery.....	44	4,815	24,178	3,225	6,675	13,769	37,022	2,165	4,385	21,675
355	Special-industry mach., n.e.c..	25	3,142	13,456	2,213	4,318	8,537	19,510	857	4,802	26,199
356	General industrial machinery...	10	830	3,421	655	1,229	2,454	6,278	234	1,684	7,172
359	Miscellaneous machinery parts..	32	303	1,303	255	530	978	1,982	161	(D)	(D)
36	Electrical machinery.....	20	1,929	5,660	1,685	3,014	4,347	12,072	309	1,288	4,017
366	Communication equipment.....	9	770	1,585	705	1,254	1,401	4,068	18	(D)	(D)
37	Transportation equipment....	8	744	(D)	599	(D)	(D)	(D)	(D)	(D)	(D)
38	Instruments & related prod..	10	936	2,853	841	1,585	2,362	8,715	85	756	(D)
384	Medical equipment and supplies.	4	138	313	130	259	290	427	(D)	(D)	(D)
39	Miscellaneous manufactures <sup>5</sup> ..	36	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1,691	5,658
394	Toys and sporting goods.....	9	254	592	225	390	485	821	51	529	1,557
397	Plastics products, n.e.c.....	8	1,033	3,056	918	1,948	2,337	7,184	1,058	287	1,146
398	Miscellaneous manufactures <sup>5</sup> ....	14	1,498	5,122	1,153	2,591	4,284	10,338	100	777	2,618

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>The Boston Standard Metropolitan Area consists of all of Suffolk County, Mass.; Cambridge, Everett, Malden, Medford, Melrose, Newton, Somerville, Waltham, and Woburn cities; Arlington, Ashland, Bedford, Belmont, Burlington, Concord, Framingham, Lexington, Lincoln, Natick, North Reading, Reading, Stoneham, Wakefield, Watertown, Wayland, Weston, Wilmington, and Winchester towns in Middlesex County, Mass.; Beverly, Lynn, Peabody, and Salem cities; Danvers, Hamilton, Lynnfield, Manchester, Marblehead, Middleton, Nahant, Saugus, Swampscott, and Wenham towns in Essex County, Mass.; Quincy city, Braintree, Brookline, Canton, Cohasset, Dedham, Dover, Medfield, Milton, Needham, Norwood, Randolph, Sharon, Walpole, Wellesley, Westwood, and Weymouth towns in Norfolk County, Mass.; Hingham and Hull towns in Plymouth County, Mass.

<sup>2</sup>In order to avoid disclosing figures for individual companies, the statistics for some industry groups (3-digit) are not shown. Industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "All industries" line.

<sup>3</sup>The 1954 and 1947 "All industries" totals are not strictly comparable because of differences in scope between the two years in Major Group 20 (see footnote 3).

Footnotes continued on next page.

Footnotes for Table 5—Continued.

<sup>4</sup>Comparable data for Major Group 20 are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude plants processing and distributing fluid milk which in 1954 were classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
20	Food and kindred products except Subgroup 202, Dairy Products:				
	Boston Standard Metropolitan Area.....	24,863	156,674	28,638	146,558
	Springfield-Holyoke Standard Metropolitan Area.....	3,057	16,604	3,000	14,000
	Worcester Standard Metropolitan Area.....	1,586	10,901	1,500	6,000

<sup>5</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)

<sup>6</sup>The Springfield-Holyoke Standard Metropolitan Area consists of Chicopee, Holyoke, Springfield, and Westfield cities, Agawam, East Longmeadow, Longmeadow, Ludlow, West Springfield, and Wilbraham towns in Hampden County, Mass.; Northampton city, Easthampton and South Hadley towns in Hampshire County, Mass.; Enfield town in Hartford County, Conn.

<sup>7</sup>The Worcester Standard Metropolitan Area consists of Worcester city, Auburn, East Brookfield, Grafton, Holden, Leicester, Millbury, Northborough, North Brookfield, Shrewsbury, Spencer, Westborough, and West Boylston towns in Worcester County, Mass.



## MANUFACTURES—AREA STATISTICS

Table 6.—GENERAL STATISTICS FOR PRINCIPAL INDUSTRIAL COUNTIES, BY MAJOR INDUSTRY GROUP: 1954 AND 1947

(Principal industrial counties include all counties with 20,000 or more manufacturing employees. For explanation of column captions see Introduction)

Code	Major industry group	1954							1947			
		Establish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)	
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
		BERKSHIRE COUNTY										
	All industries, total <sup>1</sup> .....	219	25,843	103,230	19,403	39,040	69,961	197,757	13,258	<sup>2</sup> 28,223	<sup>2</sup> 136,878	
20	Food and kindred products.....	49	454	1,370	271	500	698	3,073	262	554	2,491	
22	Textile mill products.....	16	5,717	18,174	5,383	10,258	16,250	23,798	419	7,421	33,165	
23	Apparel and related products..	7	297	744	272	487	633	1,747	12	299	(D)	
24	Lumber and wood products.....	33	210	578	189	353	505	1,173	63	215	680	
26	Pulp, paper and board.....	19	2,978	12,733	2,336	5,115	8,784	22,539	1,616	3,546	16,213	
27	Printing and publishing.....	23	462	1,935	277	535	1,047	3,035	184	390	(D)	
28	Chemicals and products.....	3	195	1,042	135	296	604	2,897	387	(D)	(D)	
31	Leather and leather goods.....	6	500	1,663	439	826	1,165	2,942	49	1,150	4,996	
32	Stone, clay, & glass products..	11	293	1,115	248	505	845	1,733	176	239	(D)	
35	Machinery, except electrical..	16	862	3,932	584	1,160	2,247	6,899	304	825	5,326	
		BRISTOL COUNTY										
	All industries, total <sup>1</sup> .....	1,073	78,378	240,964	68,127	129,498	185,013	378,243	17,062	<sup>2</sup> 89,382	<sup>2</sup> 367,540	
20	Food and kindred products.....	158	2,938	9,272	1,953	3,883	5,070	15,030	930	2,413	15,390	
22	Textile mill product.....	125	18,551	56,055	17,153	32,818	48,155	78,477	2,917	35,764	147,113	
23	Apparel and related products..	188	17,415	38,895	16,314	28,160	32,782	56,861	722	11,875	37,880	
24	Lumber and wood products.....	35	328	900	280	536	720	1,171	37	745	2,507	
25	Furniture and fixtures.....	24	871	2,628	787	1,600	2,060	4,395	84	365	1,362	
26	Pulp, paper and products.....	25	1,590	5,985	1,272	2,518	3,742	10,639	446	1,242	(D)	
27	Printing and publishing.....	56	1,423	4,487	1,007	1,858	2,651	8,113	682	1,249	5,766	
28	Chemical and products.....	21	1,046	3,997	831	1,737	2,971	9,902	4,436	991	7,156	
30	Rubber products.....	9	4,437	16,124	3,846	7,225	12,883	28,632	1,965	3,510	(D)	
31	Leather and leather goods.....	18	1,688	4,547	1,555	2,810	3,890	5,878	38	1,337	5,219	
32	Stone, clay, & glass products..	17	168	553	139	282	406	1,163	113	368	1,368	
33	Primary metal industries.....	27	1,932	7,777	1,508	2,993	5,447	12,615	325	2,122	10,210	
34	Fabricated metal products.....	95	2,665	9,655	2,234	4,738	7,497	15,892	577	3,167	15,552	
35	Machinery, except electrical...	81	3,523	13,090	2,801	5,436	9,459	21,122	1,300	5,729	19,946	
37	Transportation equipment.....	18	428	1,433	367	800	1,182	1,987	86	392	1,079	
38	Instruments and related prod...	8	1,405	4,948	1,177	2,430	3,552	9,641	231	1,081	4,964	
39	Miscellaneous manufactures <sup>3</sup> ...	154	12,753	46,699	10,253	21,008	31,379	70,082	1,935	11,979	52,679	
		ESSEX COUNTY										
	All industries, total <sup>1</sup> .....	1,383	87,651	329,066	68,405	130,029	225,824	562,972	19,781	<sup>2</sup> 104,376	<sup>2</sup> 468,162	
20	Food and kindred products.....	171	5,039	17,109	3,164	6,108	8,893	31,669	2,283	3,854	17,896	
22	Textile mill products.....	42	5,077	17,297	4,272	8,483	13,137	24,241	475	30,505	<sup>1</sup> 125,215	
23	Apparel and related products..	70	3,149	7,944	2,939	5,092	6,842	11,907	170	2,284	7,942	
24	Lumber and wood products.....	54	448	1,484	357	731	1,076	2,021	53	667	2,540	
25	Furniture and fixtures.....	38	725	2,285	610	1,165	1,784	3,980	101	557	2,095	
26	Pulp, paper and products.....	27	2,458	9,301	2,089	4,673	7,265	14,711	1,978	1,771	10,649	
27	Printing and publishing.....	91	1,216	5,025	836	1,535	3,489	8,070	217	1,108	5,484	
28	Chemicals and products.....	75	1,725	7,852	1,225	2,444	4,639	16,143	699	1,683	11,918	
30	Rubber products.....	15	1,046	3,835	828	1,607	2,705	8,317	173	1,368	5,861	
31	Leather and leather goods.....	396	24,956	76,725	22,441	39,116	61,543	108,921	1,851	25,355	104,089	
32	Stone, clay, & glass products..	18	170	663	128	258	428	968	29	125	716	
33	Primary metal industries.....	16	615	2,891	529	1,009	2,276	4,405	39	331	1,892	
34	Fabricated metal industries...	90	2,418	10,327	1,921	3,979	7,191	17,856	481	3,304	18,703	
35	Machinery, except electrical...	140	10,749	48,883	7,415	14,661	31,086	72,452	3,863	11,742	48,008	
36	Electrical machinery.....	50	19,552	79,086	14,147	27,548	50,381	161,061	4,340	16,402	89,250	
37	Transportation equipment.....	32	6,043	29,880	3,801	8,272	17,575	58,565	2,556	972	3,938	
39	Miscellaneous manufactures <sup>3</sup> ...	45	2,167	8,123	1,627	3,194	5,250	16,867	442	2,163	11,202	
		HAMPDEN COUNTY										
	All industries, total <sup>1</sup> .....	840	68,406	279,987	53,534	106,619	198,484	472,215	26,415	<sup>2</sup> 74,167	<sup>2</sup> 346,414	
20	Food and kindred products.....	123	4,091	15,832	2,264	4,662	7,764	23,048	1,351	3,025	14,732	
22	Textile mill products.....	31	4,439	14,755	3,980	7,873	11,738	23,250	495	6,667	27,370	
23	Apparel and related products..	51	4,120	11,234	3,909	7,477	9,941	16,064	189	2,493	8,195	
24	Lumber and wood products.....	27	732	2,491	596	1,178	1,860	5,113	176	1,065	4,409	
26	Pulp, paper and products.....	66	7,688	30,775	6,245	13,240	22,281	51,884	5,638	7,714	38,409	
27	Printing and publishing.....	108	4,124	14,472	2,846	5,617	9,750	24,930	1,261	2,902	20,146	
34	Fabricated metal industries...	81	2,810	12,601	2,318	4,929	8,937	21,420	785	3,844	18,575	
35	Machinery except electrical...	130	17,154	80,116	13,195	25,796	56,912	125,755	5,734	19,650	86,448	
36	Electrical machinery.....	22	4,244	14,877	3,266	6,150	10,229	26,008	658	3,804	14,755	
37	Transportation equipment.....	10	1,240	4,535	1,043	1,946	3,575	6,695	263	2,312	(D)	
39	Miscellaneous manufactures <sup>3</sup> ...	54	6,158	22,773	4,886	9,447	16,525	34,272	1,142	6,142	25,063	

See footnotes at end of table.

Table 6.--GENERAL STATISTICS FOR PRINCIPAL INDUSTRIAL COUNTIES, BY MAJOR INDUSTRY GROUP: 1954 AND 1947--Continued

(Principal industrial counties include all counties with 20,000 or more manufacturing employees. For explanation of column captions see Introduction)

Code	Major industry group	1954								1947	
		Establish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendit- ures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
		MIDDLESEX COUNTY									
	All industries, total <sup>1</sup> .....	2,049	133,754	512,618	104,605	209,944	352,367	922,611	33,105	<sup>2</sup> 128,648	<sup>2</sup> 634,799
20	Food and kindred products.....	288	12,834	46,031	9,234	18,188	28,761	85,311	3,439	13,988	69,319
22	Textile mill products.....	99	12,492	40,227	11,044	21,510	31,557	70,238	1,957	18,697	79,519
23	Apparel and related products..	136	5,640	14,741	5,110	10,788	11,550	22,947	217	4,374	14,957
24	Lumber and wood products.....	88	1,171	3,862	945	1,809	2,740	5,758	171	1,228	4,413
25	Furniture and fixtures.....	92	2,490	8,472	2,014	3,823	5,881	13,941	179	2,291	10,696
26	Pulp, paper and products.....	73	8,149	30,922	6,066	12,736	19,746	56,607	2,022	8,633	49,539
27	Printing and publishing.....	190	5,148	19,562	3,894	7,541	14,308	28,667	1,303	4,736	22,690
28	Chemicals and products.....	135	5,923	26,550	3,728	7,226	14,243	68,169	2,003	7,928	70,345
29	Petroleum and coal products...	10	1,395	7,345	1,046	2,203	5,056	13,547	3,666	1,637	(D)
30	Rubber products.....	29	10,399	42,667	7,667	14,958	27,513	77,174	2,787	11,978	56,731
31	Leather and leather good.....	90	11,445	35,708	10,361	18,815	28,849	49,872	905	10,345	44,280
32	Stone, clay, & glass products..	54	1,691	6,795	1,361	2,706	4,785	10,711	367	1,647	7,061
33	Primary metal industries.....	38	2,018	9,008	1,683	3,601	6,916	14,234	779	2,100	8,698
34	Fabricated metal products.....	213	8,166	34,140	6,664	14,194	24,489	57,399	1,986	5,840	28,839
35	Machinery, except electrical..	262	9,023	37,664	6,351	13,069	24,400	63,181	2,582	6,556	31,746
36	Electrical machinery.....	93	19,614	75,490	15,043	31,255	51,447	145,014	3,500	11,654	45,792
37	Transportation equipment.....	23	7,407	38,425	6,276	13,479	30,830	89,730	1,641	6,712	(D)
38	Instruments and related prod..	48	5,397	24,005	3,433	6,927	12,068	33,184	2,370	4,455	17,640
39	Miscellaneous manufactures <sup>3</sup> ...	88	3,344	11,001	2,676	5,109	7,219	16,920	1,225	3,838	17,775
		NORFOLK COUNTY									
	All industries, total <sup>1</sup> .....	583	36,040	143,671	27,614	55,946	100,180	248,205	12,678	<sup>2</sup> 29,249	<sup>2</sup> 139,294
20	Food and kindred products.....	70	1,790	5,889	906	1,857	2,561	9,345	406	758	3,395
22	Textile mill products.....	50	4,719	19,339	3,831	8,291	13,645	33,679	1,366	4,837	21,970
23	Apparel and related products..	27	808	2,168	705	1,301	1,667	3,909	71	610	1,999
24	Lumber and wood products.....	22	543	1,800	449	891	1,353	2,192	73	400	1,459
25	Furniture and fixture.....	15	184	523	164	321	448	937	22	(D)	(D)
26	Pulp, paper and products.....	14	1,524	6,185	1,287	2,732	4,908	12,106	4,143	1,415	9,018
27	Printing and publishing.....	61	1,669	6,753	1,329	2,429	5,270	9,435	698	1,844	8,065
28	Chemicals and products.....	24	791	3,558	508	994	2,008	21,085	238	709	10,589
29	Petroleum and coal products...	5	601	3,034	533	1,407	2,686	6,736	131	724	7,760
30	Rubber products.....	17	3,270	12,070	2,714	5,314	8,961	22,709	690	2,704	13,800
31	Leather and leather lanning...	18	2,054	6,806	1,856	3,523	5,462	9,157	101	3,330	11,010
32	Stone, clay, & glass products..	37	663	2,517	533	1,065	1,820	4,208	182	667	3,346
33	Primary metal industries.....	18	389	1,444	349	676	1,252	2,100	96	414	1,830
34	Fabricated metal products.....	49	1,475	5,814	1,133	2,250	4,184	8,426	495	1,703	5,969
35	Machinery except electrical...	74	4,234	18,442	3,049	6,450	12,277	28,516	1,005	2,794	13,847
36	Electrical machinery.....	21	3,765	12,939	3,269	6,999	10,277	20,915	775	639	2,123
38	Instruments end related prod..	17	2,683	11,311	1,721	3,485	6,645	19,283	992	1,571	(D)
		PLYMOUTH COUNTY									
	All industries, total <sup>1</sup> .....	497	21,617	68,981	18,031	33,789	50,669	115,734	3,105	<sup>2</sup> 21,574	<sup>2</sup> 88,738
20	Food and kindred products.....	62	1,474	5,033	902	1,871	2,684	12,038	606	1,190	6,311
22	Textile mills.....	14	1,746	6,426	1,467	2,882	4,752	13,464	349	2,080	11,047
23	Apparel and related products..	40	1,584	3,887	1,426	2,507	3,187	6,410	47	892	2,795
24	Lumber and wood products.....	40	537	1,766	446	933	1,380	2,515	135	580	2,356
25	Furniture and fixtures.....	9	209	704	169	347	486	1,072	8	124	(D)
26	Pulp, paper and products.....	10	511	2,070	415	914	1,366	3,394	94	289	1,039
27	Printing and publishing.....	43	960	3,310	664	1,315	2,096	4,672	219	588	2,052
30	Rubber products.....	8	272	887	226	459	625	1,251	66	145	(D)
31	Leather and leather products..	107	9,772	28,300	8,612	15,001	22,351	42,468	403	11,880	45,600
32	Stone, clay, & glass pducts..	14	431	1,713	351	856	1,250	2,642	194	352	2,103
33	Primary metals industries.....	11	389	1,566	355	680	1,230	2,062	76	747	3,839
34	Fabricated metals products....	28	1,000	3,610	835	1,946	2,881	7,130	189	850	3,720
35	Machinery, except electrical..	35	728	2,993	581	1,220	2,058	5,214	255	764	3,806
36	Electrical machinery.....	19	649	2,159	526	998	1,257	3,724	214	353	1,015
37	Transportation equipment.....	10	203	704	158	318	527	1,116	25	(D)	(D)

See footnotes at end of table.



## MANUFACTURES—AREA STATISTICS

Table 6.—GENERAL STATISTICS FOR PRINCIPAL INDUSTRIAL COUNTIES, BY MAJOR INDUSTRY GROUP: 1954 AND 1947--Continued

(Principal industrial counties include all counties with 20,000 or more manufacturing employees. For explanation of column captions see Introduction)

Code	Major industry group	1954							1947		
		Establish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendit- ures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
		SUFFOLK COUNTY									
	All industries, total <sup>1</sup> .....	2,688	101,706	384,903	76,665	144,854	249,259	674,748	19,402	<sup>2</sup> 106,824	<sup>2</sup> 558,223
20	Food and kindred products.....	280	15,239	59,058	10,155	19,922	33,914	103,334	3,823	15,196	84,550
22	Textile mills.....	59	2,403	7,827	2,093	3,651	5,496	11,420	390	2,438	11,999
23	Apparel and related products..	660	20,001	60,582	17,684	31,130	46,563	97,484	1,488	19,728	82,686
24	Lumber and products.....	35	455	1,472	365	647	977	1,842	30	809	3,528
25	Furniture and fixtures.....	128	1,991	6,903	1,619	3,136	5,154	11,834	176	2,100	9,112
26	Pulp, paper and products.....	67	2,343	8,020	2,052	4,312	5,925	13,799	585	2,852	13,578
27	Printing and publishing.....	477	17,335	79,341	10,350	18,579	43,083	131,944	4,987	17,187	91,296
28	Chemicals and products.....	79	1,537	5,982	853	1,593	2,677	12,430	314	1,928	13,799
29	Petroleum and coal products...	...	...	...	...	...	...	...	...	28	(D)
30	Rubber products.....	16	1,152	4,827	960	1,960	3,647	9,627	139	1,010	5,805
31	Leather and leather products..	144	6,764	22,957	5,794	11,132	16,847	42,686	349	7,631	76,560
32	Stone, clay, & glass products.	43	1,010	3,954	794	1,649	2,796	7,610	164	1,275	7,128
33	Primary metal industries.....	35	1,147	4,886	953	1,974	3,419	8,261	199	1,913	8,901
34	Fabricated metal industries...	203	6,568	26,084	4,966	9,691	16,512	66,575	1,582	8,189	48,473
35	Machinery, except electrical..	164	6,931	29,389	5,112	10,058	19,077	49,248	2,383	9,655	41,822
36	Electrical machinery.....	67	6,938	26,788	5,207	10,362	18,086	46,489	884	5,253	20,081
38	Instruments and related prod..	49	3,086	11,707	2,353	4,626	7,817	22,315	726	2,648	12,000
39	Miscellaneous manufactures <sup>3</sup> ...	148	4,387	15,051	3,417	6,750	10,164	22,098	535	3,734	14,827
		WORCESTER COUNTY									
	All industries, total <sup>1</sup> .....	1,470	106,030	399,591	85,588	168,594	289,468	672,125	29,892	<sup>2</sup> 117,248	<sup>2</sup> 534,227
20	Food and kindred products.....	188	3,795	13,476	2,272	4,706	6,898	24,666	1,647	2,668	11,002
22	Textile mills.....	120	11,835	42,684	10,684	21,612	35,471	63,334	3,003	18,084	83,102
23	Apparel and related products..	93	5,236	13,510	4,672	8,294	10,508	23,112	364	4,036	12,845
24	Lumber and wood products.....	75	1,141	3,554	971	2,005	2,753	5,010	185	1,263	4,825
25	Furniture and fixtures.....	98	5,443	19,777	4,658	9,281	14,905	28,447	805	4,941	23,493
26	Pulp, paper and products.....	47	5,192	20,882	4,450	9,519	16,292	37,129	2,406	5,091	31,525
27	Printing and publishing.....	110	3,342	12,859	2,384	4,519	8,437	19,418	787	3,227	15,869
28	Chemicals and products.....	35	742	2,856	499	1,039	1,527	6,015	391	489	3,087
30	Rubber products.....	7	605	2,222	529	1,068	1,673	3,083	35	826	(D)
31	Leather and leather goods.....	52	6,732	18,968	5,944	10,462	14,491	26,403	564	8,091	28,725
32	Stone, clay, & glass products.	30	5,270	24,554	3,451	6,738	15,074	41,407	2,895	5,220	30,117
33	Primary metal industries.....	49	8,890	41,835	7,205	14,223	32,289	71,805	2,671	8,540	35,415
34	Fabricated metal industries...	162	8,833	34,146	7,182	14,562	25,037	59,066	2,268	11,306	55,425
35	Machinery except electrical...	209	20,933	89,587	15,261	30,481	58,148	147,273	5,604	26,668	123,215
36	Electrical machinery.....	33	3,002	9,300	2,550	4,813	6,866	17,025	657	1,739	5,084
38	Instruments and related prod..	16	4,104	13,781	3,687	7,108	11,814	33,432	1,389	5,123	27,784

D Withheld to avoid disclosing data for individual companies.

<sup>1</sup>In order to avoid disclosing data for individual companies, the statistics for some industry groups are not shown. Industry groups reporting less than 100 employees are also omitted. They are included, however, in the "All industries" line.<sup>2</sup>The 1954 and 1947 "All industries" totals are not strictly comparable because of differences in coverage of loggers and fluid milk distributors. See discussion in Introduction and footnote to Table 4 for comparable figures at the State level.<sup>3</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)



Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954

20 Food and kindred products	26 Pulp, paper and products	32 Stone, clay, and glass products	38 Instruments and related products
21 Tobacco manufactures	27 Printing and publishing	33 Primary metal industries	39 Miscellaneous manufactures (Includes Group 19)
22 Textile mill products	28 Chemicals and products	34 Fabricated metal products	Ordnance and accessories)
23 Apparel and related products	29 Petroleum and coal products	35 Machinery, except electrical	
24 Lumber and wood products	30 Rubber products	36 Electrical machinery	
25 Furniture and fixtures	31 Leather and leather goods	37 Transportation equipment	

(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Massachusetts, total.....	11,205	1,450	21	571	1,283	488	441	367	1,202	426	29	110	846	268	232	960	1,152	324	158	163	714
1 to 4 employees.....	3,522	542	17	78	255	243	159	51	529	151	4	16	180	102	51	319	397	70	53	48	257
5 to 9 employees.....	1,719	263	1	42	154	104	48	34	246	89	7	21	97	48	25	160	208	41	24	21	86
10 to 19 employees.....	1,732	237	2	73	197	71	86	50	178	63	7	15	115	57	42	186	184	43	14	24	88
20 to 49 employees.....	1,934	224	...	135	333	46	84	82	141	68	3	12	161	33	54	152	175	43	32	20	136
50 to 99 employees.....	959	78	...	65	198	17	41	49	47	28	5	12	101	14	23	76	83	33	12	16	61
100 to 249 employees.....	788	68	...	96	115	6	19	67	39	15	...	15	116	10	17	44	50	38	5	16	52
250 to 499 employees.....	315	27	1	52	20	1	3	26	6	9	1	6	61	1	13	13	26	20	6	10	13
500 to 999 employees.....	152	9	...	23	11	...	...	6	12	2	2	7	13	2	5	7	12	18	6	4	13
1,000 to 2,499 employees.....	66	2	...	7	...	...	1	2	4	1	...	4	2	...	2	3	13	10	4	3	8
2,500 employees and over.....	18	...	...	...	...	...	...	...	...	...	...	2	...	1	...	...	4	8	2	1	...
Barnstable:																					
1 to 19 employees.....	59	8	...	...	1	2	1	...	13	2	...	...	1	9	1	2	4	...	8	2	5
20 to 99 employees.....	9	2	...	...	1	...	...	...	1	...	...	...	1	...	...	...	...	...	3	...	1
Berkshire:																					
1 to 19 employees.....	146	43	1	2	4	31	2	6	17	...	1	...	1	7	1	11	9	...	1	2	7
20 to 99 employees.....	38	6	...	1	2	2	...	4	5	2	...	1	4	3	...	...	5	1	...	1	1
100 employees and over.....	35	...	...	13	1	...	...	9	1	1	...	...	1	1	1	...	2	4	...	...	1
Bristol:																					
1 to 19 employees.....	574	130	1	37	29	30	14	11	48	15	3	1	6	14	16	72	59	5	10	4	69
20 to 99 employees.....	319	22	...	46	103	5	8	8	4	3	...	2	6	3	7	17	13	1	7	3	61
100 employees and over.....	180	6	...	42	56	...	2	6	4	3	...	6	6	...	4	6	9	4	1	1	24
Dukes:																					
1 to 19 employees.....	14	4	...	...	...	3	...	...	1	...	...	...	...	...	...	1	1	...	3	...	1
20 to 99 employees.....	3	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	2
Essex:																					
1 to 19 employees.....	874	119	3	16	33	47	25	10	79	59	2	10	194	17	11	65	100	21	21	7	35
20 to 99 employees.....	344	43	...	16	29	7	12	11	9	12	...	3	125	1	3	22	29	8	7	1	6
100 employees and over.....	165	9	...	10	8	...	1	6	3	4	...	2	77	...	2	3	11	21	4	...	4
Franklin:																					
1 to 19 employees.....	89	14	...	...	1	34	3	2	6	1	...	...	...	4	1	7	9	...	...	1	6
20 to 99 employees.....	25	3	...	1	2	...	...	...	2	1	...	...	1	...	1	3	6	1	2	...	2
100 employees and over.....	17	1	...	1	...	...	...	6	...	...	...	...	1	...	...	2	3	...	...	...	3
Hampden:																					
1 to 19 employees.....	493	92	4	3	19	22	17	19	76	19	2	4	5	20	11	55	78	8	6	1	32
20 to 99 employees.....	222	20	...	17	21	3	8	22	22	6	1	1	1	7	12	19	39	8	2	1	12
100 employees and over.....	125	11	...	11	11	2	1	25	10	3	...	1	2	1	7	7	13	6	2	2	10
Hampshire:																					
1 to 19 employees.....	117	24	...	2	...	37	3	2	13	3	...	...	1	2	1	9	12	1	...	1	6
20 to 99 employees.....	40	4	...	3	5	3	1	6	3	1	...	1	...	...	2	2	6	1	...	...	2
100 employees and over.....	26	...	...	8	1	...	1	3	1	1	...	1	2	...	...	2	...	1	...	2	3
Middlesex:																					
1 to 19 employees.....	1,238	196	...	29	70	76	61	23	155	83	6	10	25	39	21	129	186	47	6	25	51
20 to 99 employees.....	546	64	...	32	53	11	26	31	26	42	2	7	30	12	13	70	57	21	11	10	28
100 employees and over.....	265	28	...	38	13	1	5	19	9	10	2	12	35	3	4	14	19	25	6	13	9
Nantucket:																					
1 to 19 employees.....	4	1	...	...	...	...	...	...	2	...	...	...	...	1	...	...	...	...	...	...	...
Norfolk:																					
1 to 19 employees.....	379	46	1	17	13	14	13	4	53	15	2	7	8	31	11	38	54	9	8	9	26
20 to 99 employees.....	139	21	...	19	12	6	2	6	5	8	2	3	4	5	7	9	12	5	2	5	6
100 employees and over.....	65	3	...	14	2	2	...	4	3	1	1	7	6	1	...	2	8	7	1	3	...
Plymouth:																					
1 to 19 employees.....	318	45	...	4	19	32	6	4	34	17	1	6	52	8	4	19	27	10	8	3	19
20 to 99 employees.....	122	14	...	6	17	8	3	3	6	...	1	1	25	5	6	6	7	8	1	1	4
100 employees and over.....	57	3	...	4	4	...	...	3	3	...	...	1	30	1	1	3	1	1	1	...	1
Suffolk:																					
1 to 19 employees.....	1,799	172	8	42	378	28	99	38	369	63	...	11	83	32	18	154	116	34	13	31	110
20 to 99 employees.....	700	73	...	11	246	7	28	23	85	14	...	4	49	8	14	41	36	16	7	9	29
100 employees and over.....	189	35	1	6	36	...	1	6	23	2	...	1	12	3	3	8	12	17	5	9	9
Worcester:																					
1 to 19 employees.....	869	148	2	41	39	62	49	16	87	26	1	3	16	23	22	103	134	19	7	7	64
20 to 99 employees.....	386	30	...	48	40	11	37	17	19	7	2	1	16	3	12	39	48	6	2	5	43
100 employees and over.....	215	10	...	31	14	2	12	14	4	2	...	3	20	4	15	20	27	8	3	4	22

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# MICHIGAN (83 COUNTIES)





**MANUFACTURES—AREA STATISTICS**

121-2

**Table 1.—MANUFACTURING EMPLOYMENT AT OPERATING ESTABLISHMENTS AND CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARIES FOR THE STATE  
AND ITS STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS**

(This table includes data for all manufacturing employees including those located in central administrative offices and auxiliaries. Tables 2-7 in this report include data for operating establishments only. For explanation of column captions see Introduction)

State, standard metropolitan areas, and year <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	(Number)	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
<b>Michigan:</b>						
1954.....	1,056,564	5,252,352	1,001,630	4,891,749	54,934	360,603
1953 <sup>2</sup> .....	1,231,334	5,919,426	1,179,258	5,623,046	52,076	296,380
1952 <sup>2</sup> .....	1,063,873	4,932,989	1,021,265	4,708,765	<sup>3</sup> 42,608	<sup>3</sup> 224,224
1951 <sup>2</sup> .....	1,084,934	4,604,503	1,042,326	4,380,279	42,608	224,224
1950 <sup>2</sup> .....	1,054,441	4,144,440	1,012,145	3,952,496	42,296	191,944
1949 <sup>2</sup> .....	955,118	3,479,699	922,362	3,333,103	32,756	146,596
1954						
<b>Standard metropolitan areas:</b>						
Bay City <sup>4</sup> .....	10,691	46,787	10,691	46,787	...	...
Detroit <sup>5</sup> .....	590,432	3,116,837	538,223	2,773,349	52,209	343,488
Flint <sup>6</sup> .....	75,414	387,722	75,410	387,681	4	41
Grand Rapids <sup>7</sup> .....	52,372	244,845	52,337	244,270	35	575
Jackson <sup>8</sup> .....	15,806	73,628	15,575	72,444	231	1,184
Kalamazoo <sup>9</sup> .....	24,088	108,806	23,948	108,035	140	771
Lansing <sup>10</sup> .....	30,357	155,664	29,394	150,248	963	5,416
Saginaw <sup>11</sup> .....	26,693	124,865	26,625	124,462	68	403

<sup>1</sup>Employment data for administrative offices and auxiliaries on a State basis are not available for the years prior to 1949. Similar data for standard metropolitan areas are available only for 1954.

<sup>2</sup>The employment figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period. The employment figures for administrative and auxiliary units were compiled chiefly from Bureau of Old-Age and Survivors Insurance records and are not strictly comparable with the figures for these units that were collected by the Bureau of the Census for the year 1954.

<sup>3</sup>The 1951 data are shown for 1952 since auxiliary and administrative unit data were not collected in 1952.

<sup>4</sup>The Bay City Standard Metropolitan Area consists of Bay County, Michigan.

<sup>5</sup>The Detroit Standard Metropolitan Area consists of Macomb, Oakland, and Wayne Counties, Michigan.

<sup>6</sup>The Flint Standard Metropolitan Area consists of Genesee County, Michigan.

<sup>7</sup>The Grand Rapids Standard Metropolitan Area consists of Kent County, Michigan.

<sup>8</sup>The Jackson Standard Metropolitan Area consists of Jackson County, Michigan.

<sup>9</sup>The Kalamazoo Standard Metropolitan Area consists of Kalamazoo County, Michigan.

<sup>10</sup>The Lansing Standard Metropolitan Area consists of Ingham County, Michigan.

<sup>11</sup>The Saginaw Standard Metropolitan Area consists of Saginaw County, Michigan.

Table 2.—GENERAL STATISTICS FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Year	Establishments, number	All employees		Production workers		Value added by manufacture (\$1,000)			
		Number	Payroll (\$1,000)	Number	Wages (\$1,000)				
MICHIGAN									
1954 <sup>1</sup> .....	12,711	{	1,001,630	4,891,749	809,316	3,660,965	8,707,194		
1953 <sup>2</sup> .....			1,179,258	5,623,046	971,442	4,327,145	9,781,647		
1952 <sup>2</sup> .....			1,021,265	4,708,765	831,893	3,587,302	8,320,712		
1951 <sup>2</sup> .....			1,042,326	4,380,279	868,748	3,397,426	7,858,442		
1950 <sup>2</sup> .....			(NA)	1,012,145	3,952,496	850,623	3,112,945	7,392,255	
1949 <sup>2</sup> .....	{	{	922,362	3,333,103	768,876	2,559,767	5,769,964		
1947.....			975,481	3,097,336	823,255	2,444,552	5,200,135		
1939.....			5,961	618,702	1,024,965	520,165	1,794,016		
1937.....			5,614	736,895	1,170,255	660,676	986,841	2,091,663	
1935.....			5,544	591,904	824,364	531,658	691,666	1,558,119	
1933.....	4,633	{	(NA)	{	350,266	346,111	940,946		
1931.....	5,793				370,140	453,463	1,252,096		
1929.....	6,686				599,179	1,041,789	530,035	840,505	2,067,344
1927.....	5,800				488,856	760,602	1,898,263		
1925.....	5,600				515,494	792,225	1,906,760		
1923.....	5,697	{	(NA)	{	503,308	769,071	1,611,419		
1921.....	5,718				304,471	419,969	900,485		
1919.....	8,046				541,175	787,241	470,274	638,420	1,544,581
1914.....	8,659				312,712	250,395	270,939	182,140	493,093
1909.....	9,159				262,106	153,838	231,499	118,968	316,497
1904.....	7,446	192,464	98,749	175,229	81,279	199,039			
1899.....	7,310	169,150	74,868	155,800	62,532	143,726			
DETROIT STANDARD METROPOLITAN AREA									
1954 <sup>1</sup> .....	6,159	538,223	2,773,349	434,365	2,073,287	4,713,167			
1947.....	4,761	557,241	1,852,316	468,170	1,457,651	2,912,660			
1939.....	2,684	372,882	655,102	315,221	517,849	1,087,575			
1929.....	2,844	328,414	626,246	290,980	507,375	1,216,159			
1919.....	2,634	(NA)	(NA)	264,961	402,488	958,755			
FLINT STANDARD METROPOLITAN AREA									
1954 <sup>1</sup> .....	286	75,410	387,681	63,979	316,466	713,846			
1947.....	213	54,774	170,845	47,521	140,170	323,205			
1939.....	134	36,878	68,734	33,072	59,244	133,499			
1929.....	136	35,843	62,606	32,001	52,642	142,654			
1919.....	151	(NA)	(NA)	24,884	38,589	103,901			
GRAND RAPIDS STANDARD METROPOLITAN AREA									
1954 <sup>1</sup> .....	776	52,337	244,270	41,221	177,077	454,194			
1947.....	694	49,241	147,276	41,961	114,990	255,255			
1939.....	468	27,155	37,258	23,882	29,168	71,736			
1929.....	561	35,063	57,548	30,979	44,756	96,706			
1919.....	700	(NA)	(NA)	25,640	28,395	63,336			

NA Not available.

<sup>1</sup>The 1954 figures include data for establishments engaged in the processing and distribution of fluid milk, Industry Group 202, Dairy Products. These establishments were not included in the figures for the Annual Survey years 1949-1953 or earlier Census years. In addition, the 1954 Census and Annual Survey years include data for Logging camps and contractors, Industry 2411, which were not included within the scope of the 1947 Census. See footnotes to Table 4 for comparable 1954 and 1947 totals. There were also a number of changes in the definition of manufacturing industries during earlier Census years that affect the comparability of the historical series. Among the more important of these were: figures for 1935 and later years exclude data for "Railroad repair shops" and "Manufactured gas" which were included in 1899-1933 figures; the minimum size of establishment included for 1954 and 1947 was one employee, for 1939-1921 manufacturing establishments reporting value of shipments of \$5,000 or more were within scope whereas for 1919 and earlier years the cutoff was \$500. (This change in procedure has not appreciably affected the comparability of the historical data except for the figures on number of establishments.)

<sup>2</sup>The employment and payroll figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. (These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments.) The standard errors associated with these estimates are published in the Annual Survey of Manufactures Volume for this period.

## MANUFACTURES—AREA STATISTICS

121-4

Table 3.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947

(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
Michigan, total.....	6,371,766	12,711	1,001,630	4,891,749	809,316	1,655,338	3,660,965	8,707,194	870,465	1,975,481	15,200,135
STANDARD METROPOLITAN AREAS											
Bay City area.....	88,461	157	10,691	46,787	8,671	17,745	35,063	68,070	9,499	10,841	50,767
Detroit area.....	3,016,197	6,159	538,223	2,773,349	434,365	881,589	2,073,287	4,713,167	480,818	557,241	2,912,660
Flint area.....	270,963	286	75,410	387,681	63,979	137,996	316,466	713,846	149,069	54,774	323,205
Grand Rapids area.....	288,292	776	52,337	244,270	41,221	86,735	177,077	454,194	27,710	49,241	255,255
Jackson area.....	107,925	265	15,575	72,444	12,478	24,547	56,746	141,473	5,836	16,261	87,913
Kalamazoo area.....	126,707	267	23,948	108,035	18,502	38,729	74,800	221,408	18,369	20,867	150,412
Lansing area.....	172,941	209	29,394	150,248	24,251	56,037	117,558	318,340	15,350	25,852	155,054
Saginaw area.....	153,515	228	26,625	124,462	21,883	45,203	95,799	236,980	31,437	22,141	115,187
COUNTIES											
Alcona.....	5,856	11	89	307	73	148	217	402	29	10	25
Alger.....	10,007	35	911	3,533	775	1,756	2,884	5,727	519	1,082	6,690
Allegan.....	47,493	95	3,354	13,173	2,758	5,685	9,952	25,821	2,130	2,840	16,760
Alpena.....	22,189	40	2,723	12,022	2,189	4,831	9,173	25,691	4,564	2,057	17,259
Autrim.....	10,721	23	541	1,904	467	1,063	1,554	3,175	178	229	697
Arenac.....	9,644	15	(D)	(D)	(D)	(D)	(D)	(D)	(D)	79	355
Baraga.....	8,037	43	429	1,221	372	661	969	1,651	108	743	3,986
Barry.....	26,183	37	2,614	10,443	2,032	4,318	7,619	17,976	856	2,301	13,101
Bay.....	88,461	157	10,691	46,787	8,671	17,745	35,063	68,070	9,499	10,841	50,767
Benzie.....	8,306	20	392	1,077	354	677	843	1,687	175	342	1,443
Berrien.....	115,702	293	20,831	92,240	16,086	31,922	64,013	178,497	9,176	18,344	89,819
Branch.....	30,202	-63	2,514	9,609	2,107	4,184	7,494	15,947	961	2,660	12,268
Calhoun.....	120,813	197	21,102	94,073	16,236	31,903	67,824	239,018	7,641	19,758	126,630
Cass.....	28,185	53	1,673	6,560	1,368	2,523	4,457	11,786	551	1,690	7,773
Charlevoix.....	13,475	32	699	2,529	604	1,250	1,996	3,713	246	604	3,877
Cheboygan.....	13,731	28	266	899	211	411	594	1,775	67	555	3,508
Chippewa.....	29,206	58	1,885	7,169	1,632	3,077	6,031	9,753	3,594	2,034	10,544
Clare.....	10,253	16	707	2,436	628	1,239	2,057	5,838	171	195	839
Clinton.....	31,195	29	863	3,736	709	1,519	3,020	11,659	279	752	4,331
Crawford.....	4,151	12	288	815	254	481	659	1,449	50	98	256
Delta.....	32,913	124	2,428	8,455	2,069	4,218	6,845	16,225	867	2,229	8,977
Dickinson.....	24,844	84	2,028	6,264	1,642	3,234	4,532	8,609	525	2,121	8,719
Eaton.....	40,023	66	1,914	6,504	1,597	3,027	4,926	9,688	356	1,915	7,278
Emmet.....	16,534	26	813	3,080	669	1,451	2,329	4,806	229	827	4,259
Genesee.....	270,963	286	75,410	(D)	63,979	(D)	(D)	(D)	(D)	54,774	323,205
Gladwin.....	9,451	5	36	79	17	38	43	146	15	16	93
Gogebic.....	27,053	54	1,134	3,446	977	1,888	2,798	5,859	328	1,141	4,305
Grand Traverse.....	28,598	56	2,391	9,672	1,923	3,862	7,060	15,591	564	1,916	5,909
Gratiot.....	33,429	44	3,001	12,201	2,404	4,968	8,549	23,878	2,527	2,829	14,285
Hillsdale.....	31,916	56	2,372	10,366	2,022	3,962	8,088	17,257	673	2,459	11,004
Houghton.....	39,771	95	1,446	4,400	1,218	2,388	3,416	10,616	544	1,703	(D)
Huron.....	33,149	52	1,935	7,780	1,506	3,158	5,408	13,030	830	1,284	6,807
Ingham.....	172,941	209	29,394	150,248	24,251	56,037	117,558	318,340	15,350	25,852	155,054
Ionia.....	38,158	69	3,586	13,011	2,992	5,866	9,869	22,607	1,307	3,439	17,159
Iosco.....	10,906	25	857	3,353	744	1,658	2,782	7,918	374	286	1,989
Iron.....	17,692	50	356	721	288	534	588	1,105	149	314	799
Isabella.....	28,964	30	802	3,600	655	1,412	2,780	7,341	1,155	924	5,915
Jackson.....	107,925	265	15,575	72,444	12,478	24,547	56,746	141,473	5,836	16,261	87,913
Kalamazoo.....	126,707	267	23,948	108,035	18,502	38,729	74,800	221,408	18,369	20,867	150,412
Kalkaska.....	4,597	13	119	354	102	197	277	596	40	12	85
Kent.....	288,292	776	52,337	244,270	41,221	86,735	177,077	454,194	27,710	49,241	255,255
Keweenaw.....	2,918	18	221	504	206	346	463	827	73	188	(D)
Lake.....	5,257	7	50	168	40	106	122	254	(D)	(D)	(D)
Lapeer.....	35,794	43	1,204	4,493	1,029	1,959	3,512	6,980	403	1,071	4,409
Leelanau.....	8,647	18	329	935	264	524	713	1,354	175	215	801
Lenawee.....	64,629	163	11,320	52,570	9,447	19,496	42,063	96,903	3,488	10,426	50,005
Livingston.....	26,725	79	1,889	8,006	1,566	3,187	6,169	13,025	828	1,471	7,490
Luce.....	8,147	28	566	2,113	418	880	1,454	2,387	124	328	1,478
Mackinac.....	9,287	22	101	174	91	148	166	570	20	56	97
Macomb.....	184,961	746	35,120	181,898	28,761	59,182	137,472	281,192	38,496	14,843	106,404
Manistee.....	18,524	48	2,263	8,465	1,858	3,678	6,099	19,790	1,334	2,478	9,228
Marquette.....	47,654	139	2,588	7,434	2,195	4,078	5,865	13,975	788	2,611	10,318
Mason.....	20,474	44	1,744	6,311	1,409	2,837	4,367	8,825	503	1,708	7,029
Mecosta.....	18,968	36	1,239	3,512	1,093	2,006	2,750	5,386	206	1,129	3,370
Menominee.....	25,299	107	3,002	10,572	2,458	4,930	8,021	18,936	1,404	2,847	12,376
Midland.....	35,662	37	11,023	(D)	7,162	(D)	(D)	(D)	(D)	7,963	(D)
Missaukee.....	7,458	6	26	74	20	40	58	113	39	(D)	(D)
Monroe.....	75,666	100	8,655	44,427	7,232	15,181	34,734	67,984	3,487	6,820	44,630
Montcalm.....	31,013	54	3,485	14,443	2,615	5,228	9,912	27,108	943	3,612	22,041
Montmorency.....	4,125	14	98	268	86	162	226	748	31	23	66

See footnotes at end of table



Table 3.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
Muskegon.....	121,545	197	25,272	116,326	20,345	39,485	86,815	186,973	17,985	30,187	142,616
Newaygo.....	21,567	33	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1,536	5,490
Oakland.....	396,001	1,051	57,624	300,460	47,184	97,954	225,631	531,955	64,350	44,566	261,462
Oceana.....	16,105	35	530	1,256	471	867	1,024	2,266	175	614	2,327
Ogemaw.....	9,345	19	94	209	79	142	176	476	54	116	1,221
Ontonagon.....	10,282	45	505	1,480	412	871	1,188	2,003	109	1,000	4,629
Osceola.....	13,797	21	671	2,441	578	1,184	1,777	4,246	249	287	1,421
Oscoda.....	3,134	7	58	131	53	114	111	209	22	16	42
Otsego.....	6,435	20	380	1,259	330	673	1,050	3,290	87	248	1,280
Ottawa.....	73,751	227	11,475	49,460	9,647	19,599	35,256	92,137	5,060	10,093	55,873
Presque Isle.....	11,996	19	165	342	152	298	302	499	26	43	80
Roscommon.....	5,916	19	132	352	114	221	308	617	59	37	137
Saginaw.....	153,515	228	26,625	124,462	21,883	45,203	95,799	236,980	31,437	22,141	115,187
St. Claire.....	91,599	164	9,547	42,376	7,353	14,678	29,896	72,929	3,624	10,457	54,313
St. Joseph.....	35,071	121	6,483	24,471	5,352	10,975	19,168	54,110	2,760	5,914	33,028
Sanilac.....	30,837	52	1,696	5,756	1,491	2,695	4,514	8,875	562	419	1,475
Schoolcraft.....	9,148	29	372	1,149	311	605	915	2,434	155	561	2,821
Shiawassee.....	45,967	75	3,621	14,202	2,946	6,020	10,658	20,906	1,422	4,695	20,209
Tuscola.....	38,258	44	1,100	4,614	902	1,733	3,477	6,573	196	1,142	5,661
Van Buren.....	39,184	93	3,302	11,718	2,895	5,386	8,900	23,530	1,629	2,811	12,206
Washtenaw.....	134,606	194	21,163	99,821	17,202	33,970	75,033	172,533	24,653	23,065	120,298
Wayne.....	2,435,235	4,362	445,478	2,290,990	358,419	724,452	1,710,181	3,900,018	377,971	497,832	2,544,794
Wexford.....	18,628	38	2,033	6,817	1,762	3,352	5,418	10,336	298	2,278	8,314
CITIES WITH 10,000 INHABITANTS OR MORE											
Adrian.....	18,393	52	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Albion.....	10,406	22	2,472	10,449	2,014	3,955	7,811	30,116	820	(NA)	(NA)
Allen Park.....	12,329	8	71	324	56	145	270	550	24	(NA)	(NA)
Alpena.....	13,135	25	2,605	11,565	2,103	4,652	8,886	24,873	4,517	2,047	17,224
Ann Arbor.....	48,251	64	4,277	21,035	3,079	6,072	13,393	38,647	1,375	4,694	21,357
Battle Creek.....	48,666	88	12,471	56,129	9,357	18,274	39,655	164,515	4,514	11,727	82,993
Bay City.....	52,523	106	8,964	39,126	7,181	14,572	28,877	57,440	7,570	9,520	40,701
Benton Harbor.....	18,769	69	4,428	18,860	3,387	6,680	12,999	31,909	1,364	4,796	24,600
Berkley.....	17,931	29	275	1,399	221	480	1,060	2,542	66	(NA)	(NA)
Birmingham.....	15,467	27	566	2,687	473	939	2,014	4,421	269	280	1,442
Cadillac.....	10,425	27	1,958	6,688	1,693	3,252	5,296	10,049	285	(NA)	(NA)
Dearborn.....	94,994	166	62,390	353,211	54,618	117,753	296,816	639,427	46,318	70,669	(D)
Detroit.....	1,849,568	3,453	296,517	1,513,273	232,348	463,938	1,088,535	2,490,813	194,324	339,643	1,834,109
East Detroit.....	21,461	101	1,673	8,990	1,387	2,878	6,748	13,467	711	(NA)	(NA)
East Lansing.....	20,325	5	40	114	31	45	88	192	16	(NA)	(NA)
Ecorse.....	17,948	26	3,152	15,029	2,608	4,668	11,253	24,392	1,852	12,525	(D)
Escanaba.....	15,170	30	1,255	4,501	1,058	2,142	3,558	8,743	302	817	3,714
Ferndale.....	29,675	142	5,984	32,855	4,691	9,756	22,718	59,336	2,243	3,404	22,372
Flint.....	163,143	161	59,856	(D)	51,167	(D)	(D)	(D)	(D)	52,047	308,893
Grand Rapids.....	176,515	590	35,787	164,640	27,988	58,461	117,332	283,270	10,302	41,489	210,554
Grosse Pointe Park.....	13,075	4	55	(D)	20	(D)	(D)	(D)	(D)	57	206
Grosse Pointe Woods.....	10,381	3	118	(D)	96	(D)	(D)	(D)	(D)	(NA)	(NA)
Hamtramck.....	43,355	57	20,684	100,906	18,077	36,420	85,036	151,484	10,161	25,631	139,004
Hazel Park.....	17,770	131	1,929	10,919	1,580	3,392	8,001	17,435	699	(NA)	(NA)
Highland Park.....	46,393	58	12,742	61,984	10,449	21,021	45,954	81,198	12,778	19,701	71,479
Holland.....	15,858	62	4,171	14,832	3,198	6,432	10,099	28,606	1,345	4,675	25,170
Inkster.....	16,728	15	440	1,873	343	709	1,209	2,897	580	(NA)	(NA)
Ironwood.....	11,466	15	549	1,557	468	850	1,213	2,455	74	432	1,558
Jackson.....	51,088	149	9,813	46,148	7,761	15,419	33,451	99,025	4,046	12,490	70,109
Kalamazoo.....	57,704	177	15,849	70,556	12,532	26,323	50,723	111,715	11,961	13,861	79,825
Lansing.....	92,129	137	27,867	142,410	23,024	53,578	112,084	305,118	14,047	24,898	147,996
Lincoln Park.....	29,310	28	291	1,694	215	464	1,186	2,994	197	216	1,398
Livonia.....	17,534	52	3,764	21,156	2,720	6,206	14,247	18,410	61,066	(NA)	(NA)
Marquette.....	17,202	28	1,312	4,409	1,049	2,125	3,350	6,735	485	1,558	5,557
Menominee.....	11,151	38	2,652	9,825	2,163	4,415	7,412	17,525	1,255	2,673	11,752
Midland.....	14,285	24	10,846	(D)	7,008	(D)	(D)	(D)	(D)	7,623	(D)
Monroe.....	21,467	43	7,513	40,025	6,280	13,354	31,470	60,621	3,146	5,884	39,691
Mount Clemens.....	17,027	43	1,893	7,480	1,520	2,946	5,398	11,163	457	1,848	10,343
Mount Pleasant.....	11,393	18	695	3,198	563	1,205	2,470	6,641	1,097	(NA)	(NA)
Muskegon.....	48,429	113	17,235	80,911	14,080	27,655	61,003	131,516	11,664	17,567	85,073
Muskegon Heights.....	18,828	31	5,199	22,521	4,030	7,576	16,639	34,033	1,259	8,542	40,293
Niles.....	13,145	32	3,080	13,202	2,218	4,314	7,732	25,204	1,584	2,496	14,395
Owosso.....	15,948	40	2,662	10,187	2,158	4,398	7,631	14,245	1,179	3,925	16,971
Pontiac.....	73,681	90	32,618	(D)	27,085	(D)	(D)	(D)	(D)	32,997	(D)
Port Huron.....	35,725	60	5,081	22,839	3,722	7,484	15,653	41,101	2,042	5,188	27,126

See footnotes at end of table

## MANUFACTURES--AREA STATISTICS

Table 3.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
River Rouge.....	20,549	28	4,156	21,362	3,217	6,842	14,780	58,631	12,203	2,952	19,966
Roseville.....	15,816	58	835	4,126	701	1,383	3,000	7,176	406	(NA)	(NA)
Royal Oak.....	46,898	93	1,777	9,439	1,366	2,937	6,541	14,744	1,027	857	5,589
Saginaw.....	92,918	157	24,766	116,600	20,393	42,208	90,097	222,100	30,351	21,131	108,427
St. Clair Shores.....	19,823	55	522	2,448	435	918	1,794	4,100	281	215	1,374
St. Joseph.....	10,223	42	5,757	28,792	4,433	8,680	20,303	68,323	2,003	(NA)	(NA)
Sault Ste. Marie.....	17,912	19	1,650	6,638	1,420	2,691	5,568	8,883	3,484	1,918	10,179
Traverse City.....	16,974	40	2,228	9,147	1,811	3,647	6,737	14,754	491	1,819	5,567
Wyandotte.....	36,846	60	7,160	34,341	5,290	10,687	23,334	66,021	3,688	7,621	39,452
Ypsilanti.....	18,302	29	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

D Withheld to avoid disclosing figures for individual companies.

NA Separate figures are not available, but are included in totals for the area.

<sup>1</sup>The 1947 data are not strictly comparable with the figures shown for 1954 due to differences in coverage of loggers and fluid milk distributors.  
See discussion in Introduction and footnotes to Table 4.



Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954										1947	
		Establishments, number		All employees		Production workers			Value added by manufacture	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
	All industries, total <sup>1</sup> ...	12,711	4,001	1,001,630	4,891,749	809,316	1,655,338	3,660,965	8,707,194	(2)	870,465	397,548	5,200,135
20	Food and kindred products..	1,677	492	57,073	241,193	39,025	80,488	141,177	514,730	(2)	31,789	(4)	(4)
201	Meat products.....	223	74	6,211	27,086	4,629	9,879	18,182	49,384	(2)	2,440	6,152	34,922
2011	Meat packing plants.....	112	37	3,160	14,692	2,386	5,191	9,875	27,279	(2)	1,128	4,474	24,938
2013	Prepared meats.....	70	31	2,550	11,229	1,817	3,879	7,217	19,388	(2)	1,113	1,593	9,636
2015	Poultry dressing plants.....	41	6	500	1,165	424	807	1,088	2,716	15,254	198	(D)	(D)
202	Dairy products.....	586	148	12,067	52,302	6,866	15,389	25,552	117,249	(2)	8,705	(4)	(4)
2021	Creamery butter.....	52	9	727	2,259	534	1,227	1,584	4,809	33,083	256	(4)	(4)
2022	Natural cheese.....	41	6	478	1,530	347	797	1,047	2,584	16,103	327	(4)	(4)
2023	Concentrated milk.....	19	13	869	3,844	711	1,764	3,075	11,163	44,945	859	(4)	(4)
2024	Ice cream and ices.....	90	22	1,462	5,700	887	1,717	2,786	14,771	31,774	1,349	(4)	(4)
2025	Special dairy products.....	5	3	337	1,374	268	590	1,006	9,939	18,114	346	(4)	(4)
2026	Fluid milk.....	82	8	623	2,076	452	936	1,304	4,142	12,712	361	(4)	(4)
2027	Fluid milk and other products..	297	87	7,568	35,517	3,663	8,355	14,748	69,839	191,091	5,205	(4)	(4)
203	Canned and frozen foods.....	139	68	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2033	Canned fruits and vegetables...	68	44	4,117	16,770	3,383	6,928	9,384	33,069	89,418	2,964	4,028	16,318
2035	Pickles and sauces.....	51	12	1,388	3,758	1,201	2,468	2,956	6,188	18,925	718	1,316	4,480
2037	Frozen fruits and vegetables...	16	12	539	1,334	490	880	1,046	2,150	8,800	308	830	2,557
204	Grain mill products.....	90	22	7,580	33,584	5,860	11,562	24,180	108,460	(2)	4,166	6,189	55,670
2041	Flour and meal.....	24	9	785	3,785	476	1,108	2,128	6,663	41,064	822	889	5,866
2042	Prepared animal feeds.....	50	6	615	1,826	495	1,048	1,305	3,830	13,616	373	518	(D)
2043	Cereal breakfast foods.....	7	6	6,079	27,569	4,825	9,272	20,548	96,990	164,095	2,923	4,768	(D)
2045	Flour mixes.....	9	1	100	403	63	133	197	976	3,755	47	(D)	(D)
205	Bakery products.....	287	86	12,918	54,241	8,238	17,179	29,384	87,606	(2)	3,846	12,762	62,957
2051	Bread and related products....	275	77	11,260	48,268	7,044	14,743	25,648	75,930	151,579	3,031	12,500	(D)
2052	Biscuit and crackers.....	12	9	1,658	5,973	1,194	2,436	3,735	11,675	26,171	814	2,055	12,229
207	Candy and related products...	34	5	846	2,761	763	1,507	2,279	3,513	(2)	366	1,294	5,059
208	Beverages.....	144	53	7,572	35,654	4,748	9,478	19,949	82,343	(2)	7,169	6,868	52,661
2081	Bottled soft drinks.....	114	31	3,092	11,384	1,633	3,108	4,763	24,643	39,509	1,913	2,749	14,866
2082	Beer and ale.....	14	12	4,005	22,081	2,794	5,812	14,166	51,875	83,738	5,117	3,667	34,338
2084	Wines and brandy.....	10	7	256	932	171	257	390	2,759	(2)	97	210	1,055
209	Miscellaneous foods.....	169	31	3,072	10,549	2,217	3,914	5,804	19,035	(2)	978	2,680	16,906
2095	Flavorings.....	25	2	152	669	92	167	285	1,743	4,184	43	200	1,351
2097	Manufactured ice.....	27	5	414	1,422	264	446	771	1,983	2,545	235	735	5,010
2099	Food preparations, n.e.c.....	108	20	2,175	7,369	1,636	2,861	4,092	12,279	40,794	657	(D)	(D)
21	Tobacco manufactures.....	9	2	673	2,268	539	915	1,313	5,883	(2)	102	906	3,612
22	Textile mill products.....	46	23	3,451	13,479	2,962	5,875	10,251	22,175	(2)	1,126	5,996	31,058
221	Wool and worsted manufac- ture.....	6	4	483	1,758	422	768	1,279	2,057	(2)	80	879	3,978
225	Knitting mills.....	9	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2253	Knit outerwear mills.....	4	1	102	257	83	156	173	461	753	...	(D)	(D)
229	Miscellaneous textile goods..	23	13	2,109	9,045	1,794	3,699	6,987	16,586	(2)	947	2,671	17,584
2293	Padding and upholstery filling.	14	9	1,346	5,753	1,176	2,471	4,621	10,262	21,996	686	2,111	(D)
2298	Cordage and twine.....	5	2	347	1,442	282	555	993	2,650	5,223	(D)	(D)	(D)
23	Apparel and related prod- ucts.....	291	95	10,218	32,565	8,761	16,195	24,636	52,027	(2)	6,398	9,461	35,677
232	Men's and boys' furnishings..	39	17	1,257	2,927	1,102	1,917	2,257	4,148	(2)	111	1,570	4,714
2327	Separate trousers.....	7	2	200	444	181	272	345	601	1,074	(D)	243	1,000
2329	Men's & boys' clothing, n.e.c..	22	14	939	2,200	835	1,497	1,738	3,156	7,090	60	1,075	3,171
233	Women's and misses' outerwear	33	15	732	1,866	668	1,163	1,569	3,003	(2)	35	1,159	4,260
2331	Blouses.....	5	2	108	280	94	169	220	568	945	(D)	222	973
2334	Dresses, dozen price.....	12	7	297	607	276	460	514	973	1,824	9	577	1,508
2337	Women's suits, coats and skirts	9	4	231	735	206	370	613	993	2,011	(D)	(D)	(D)
234	Women's undergarments.....	17	15	1,670	3,595	1,534	2,584	3,039	6,416	(2)	149	2,288	8,688
2341	Women's & children's underwear.	10	9	958	2,062	891	1,546	1,769	2,683	5,538	139	345	(D)
2342	Corsets and allied garments....	7	6	712	1,533	642	1,038	1,270	3,733	5,610	9	1,943	(D)
236	Children's outerwear.....	15	8	1,025	2,516	930	1,775	2,037	4,012	(2)	30	(D)	(D)
238	Miscellaneous apparel.....	26	12	1,043	3,258	879	1,566	2,206	6,114	(2)	78	968	3,531
2382	Fabric work gloves.....	14	7	370	962	335	537	685	2,319	3,812	20	275	(D)
2385	Waterproof outer garments.....	6	2	419	1,505	324	596	987	2,646	4,925	44	(D)	(D)
239	Fabricated textiles, n.e.c.....	150	27	4,367	17,931	3,541	6,964	13,111	27,249	(2)	5,986	2,649	11,746
2391	Curtains and draperies.....	18	3	151	298	125	190	214	521	1,103	14	54	(D)
2392	Housefurnishings, n.e.c.....	18	4	201	579	174	334	450	1,098	2,846	21	141	629
2394	Canvas products.....	50	4	367	1,171	257	489	635	1,929	3,925	71	321	1,163
2396	Trimnings and art goods.....	13	8	2,827	13,406	2,276	4,653	10,085	18,571	79,018	(D)	1,362	6,410
2399	Textile products, n.e.c.....	31	6	695	2,206	594	1,108	1,518	4,565	11,423	52	679	2,980
24	Lumber and wood products...	1,292	159	14,767	45,318	12,707	24,373	35,220	73,174	(2)	3,918	(4)	(4)
2411	Logging camps and contractors	532	19	2,390	4,530	2,214	3,489	4,218	8,404	13,519	981	(4)	(4)
242	Lumber and basic products....	370	45	4,465	13,379	4,002	7,991	11,107	20,255	(2)	1,130	6,673	25,907
2421	Sawmills and planing mills....	365	41	4,051	11,856	3,629	7,274	9,823	17,899	36,252	990	(D)	(D)

See footnotes at end of table.



## MANUFACTURES—AREA STATISTICS

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establish- ments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
	Lumber and wood products— Continued												
243	Millwork and related products	169	37	3,593	13,721	2,747	5,594	9,332	23,405	(2)	869	3,260	14,587
2431	Millwork plants.....	139	23	2,059	8,146	1,558	3,227	5,476	12,458	33,403	671	(D)	(D)
2432	Plywood plants.....	6	4	861	3,080	695	1,445	2,258	5,995	9,938	91	1,151	(D)
2433	Prefabricated wood products....	24	10	673	2,495	493	921	1,598	4,951	12,978	107	242	1,220
244	Wooden containers.....	89	24	1,482	4,536	1,323	2,723	3,704	6,391	(2)	333	2,212	13,544
2441	Fruit and vegetable baskets....	7	4	199	434	177	360	353	517	920	(D)	207	(D)
2444	Wooden boxes.....	75	19	1,241	3,977	1,109	2,276	3,245	5,708	12,237	321	1,913	12,529
249	Miscellaneous wood products..	132	34	2,836	9,151	2,419	4,574	6,857	14,717	(2)	602	4,672	18,216
2499	Wood products, n.e.c.....	121	31	2,644	8,422	2,266	4,293	6,457	13,230	22,631	(D)	4,465	(D)
25	Furniture and fixtures.....	406	154	20,737	86,653	17,162	35,787	64,883	142,067	(2)	4,478	21,506	91,299
251	Household furniture.....	253	101	9,944	38,372	8,393	17,683	28,654	54,970	(2)	1,815	11,918	44,548
2511	Wood furniture, not upholstered	121	51	6,026	22,455	5,167	11,302	17,012	32,392	53,812	681	8,417	29,067
2512	Upholstered household furniture	72	29	2,064	8,178	1,756	3,466	6,357	11,556	22,285	297	2,241	(D)
2514	Metal household furniture.....	23	10	1,170	5,059	919	1,863	3,561	9,125	15,674	720	(D)	(D)
252	Office furniture.....	20	10	2,494	11,583	2,210	4,406	9,623	21,880	(2)	331	1,879	11,409
2521	Wood office furniture.....	9	3	453	1,818	381	762	1,325	2,910	4,670	25	422	1,693
2522	Metal office furniture.....	11	7	2,040	9,764	1,829	3,644	8,297	18,970	33,232	306	1,457	9,716
253	Public and professional fur- niture.....	22	12	4,393	20,222	3,293	6,762	14,168	32,412	(2)	1,088	3,964	17,616
2531	Public-building furniture.....	14	8	3,090	14,228	2,314	4,671	9,969	22,457	41,873	979	(D)	(D)
2532	Professional furniture.....	8	4	1,303	5,994	979	2,090	4,198	9,955	16,366	109	(D)	(D)
2541	Partitions and fixtures.....	58	19	2,138	9,681	1,700	3,769	6,823	14,746	24,196	882	1,657	8,775
256	Screens, shades and blinds...	43	10	1,639	6,281	1,463	2,956	5,272	14,011	(2)	338	1,897	8,059
2561	Window and door screens.....	14	5	436	1,816	403	886	1,598	2,909	6,885	96	435	1,817
2562	Window shades.....	9	2	958	3,614	867	1,703	3,094	9,757	16,804	183	1,031	4,560
2563	Venetian blinds.....	20	3	243	851	192	366	579	1,344	2,743	58	431	1,682
259	Furniture and fixtures, n.e.c.....	10	2	127	513	101	208	341	1,046	(2)	21	191	892
26	Pulp, paper and products...	185	135	29,168	132,100	24,417	52,502	103,779	236,147	(2)	26,705	26,022	174,319
261	Pulp, paper and board.....	52	49	10,675	51,741	9,121	20,961	42,478	97,829	(2)	17,453	11,856	88,102
2641	Paper coating and glazing....	17	11	3,232	13,154	2,840	6,122	10,976	18,466	56,821	2,737	2,905	17,370
2651	Envelopes.....	5	4	438	2,207	329	674	1,288	3,161	5,657	59	389	1,385
267	Paperboard containers.....	61	42	6,311	28,139	5,100	10,432	20,585	49,104	(2)	2,954	3,966	28,139
2671	Paperboard boxes.....	54	38	6,063	27,259	4,878	9,991	19,879	47,932	114,055	2,868	3,832	27,642
2674	Fiber cans, tubes, drums, etc..	7	4	247	880	221	441	706	1,172	2,208	85	134	497
269	Pulp, paper and products, n.e.c.....	50	29	8,511	36,858	7,025	14,311	28,450	67,586	(2)	3,501	(D)	(D)
2699	Paper & board products, n.e.c..	29	19	6,194	26,347	5,133	10,662	20,480	51,655	113,360	2,814	5,746	34,421
27	Printing and publishing....	1,257	248	26,973	133,298	16,769	32,829	81,313	223,518	(2)	11,900	21,677	136,983
2711	Newspapers.....	346	70	11,707	60,720	5,881	11,300	32,859	105,290	149,390	7,094	9,055	64,382
2721	Periodicals.....	57	6	530	2,159	124	200	458	5,220	11,159	87	475	3,942
273	Books.....	49	11	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2731	Books; publishing and printing.	20	5	268	1,090	74	155	321	2,324	4,099	(D)	169	(D)
2741	Miscellaneous publishing.....	37	7	949	2,800	64	119	317	5,936	8,664	54	462	(D)
2751	Commercial printing.....	509	68	6,644	29,766	5,211	10,051	21,775	50,668	81,397	1,891	5,967	31,179
2761	Lithographing.....	106	34	2,483	13,013	1,915	3,729	8,469	19,619	32,921	1,021	1,389	9,138
278	Bookbinding and related in- dustries.....	38	16	1,535	6,258	1,283	2,500	4,567	9,334	(2)	658	1,970	9,576
2781	Bookbinding.....	20	11	769	3,162	692	1,283	2,407	4,954	5,819	309	568	2,081
2782	Blankbooks and paper ruling....	8	3	438	1,751	340	738	1,281	2,479	4,613	(D)	374	(D)
2783	Loose-leaf binders and devices.	5	2	314	1,315	237	459	849	1,844	2,799	(D)	997	5,579
279	Printing trade service.....	112	36	2,345	15,293	1,826	3,998	11,123	21,768	(2)	833	1,757	12,478
2791	Typesetting.....	40	10	821	5,160	663	1,640	3,916	7,304	7,859	300	760	5,241
2792	Engraving and plate printing...	16	3	179	807	142	245	513	1,298	1,755	194	37	(D)
2793	Photoengraving.....	41	16	831	5,923	610	1,266	4,136	7,750	8,662	200	606	2,587
2794	Electrotyping and stereotyping.	15	7	506	3,396	400	837	2,549	5,405	6,625	133	354	2,587
28	Chemicals and products....	380	122	37,936	190,271	26,398	53,092	113,164	497,024	(2)	42,912	33,978	281,669
281	Inorganic chemicals.....	22	12	6,895	33,459	5,039	10,458	22,757	61,108	(2)	12,564	6,546	37,750
282	Organic chemicals.....	21	16	12,265	64,845	8,094	16,068	37,101	152,572	(2)	18,059	9,389	87,280
2829	Organic chemicals, n.e.c.....	7	6	2,191	11,045	1,193	2,498	5,302	25,729	46,708	5,427	(NA)	(NA)
283	Drugs and medicines.....	50	17	8,619	44,413	6,252	12,175	25,371	135,064	(2)	4,647	8,339	73,978
2834	Pharmaceutical preparations....	46	14	8,305	43,072	6,070	11,851	24,721	132,400	196,719	3,914	8,026	72,244
284	Soap and related products....	75	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2842	Cleaning and polishing products	59	9	1,135	5,725	722	1,295	2,794	43,852	89,506	2,335	495	4,367
285	Paints and allied products...	78	32	4,026	20,361	2,439	4,815	10,039	53,416	(2)	1,323	3,794	36,406
2851	Paints and varnishes.....	68	29	3,872	19,550	2,353	4,646	9,736	51,634	115,716	1,231	3,672	35,177
2853	Whiting and fillers.....	10	3	153	811	86	169	303	1,782	3,551	91	122	1,229
287	Fertilizers.....	8	7	531	2,266	427	944	1,758	5,514	(2)	1,742	(D)	(D)
288	Vegetable and animal oils....	14	6	763	3,642	603	1,430	2,765	8,113	(2)	298	866	7,966

See footnotes at end of table.

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manufacture	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
	Chemicals and products—Continued												
289	Chemical products, n.e.c.....	109	21	2,784	12,405	2,034	4,287	8,068	33,359	(2)	1,570	3,597	27,468
2891	Printing ink.....	8	3	260	1,129	204	428	863	2,459	6,151	17	193	1,735
2893	Toilet preparations.....	17	3	186	659	120	217	298	1,634	2,607	34	225	1,085
2896	Compressed and liquefied gases.	19	4	337	1,718	182	419	888	3,719	5,372	504	430	2,728
2899	Chemical products, n.e.c.....	48	5	591	2,711	392	799	1,363	10,164	18,443	295	1,156	12,309
29	Petroleum and coal products	58	34	4,015	22,163	3,107	6,775	15,730	67,796	(2)	11,767	3,479	50,247
2911	Petroleum refining.....	19	17	1,749	10,131	1,248	2,701	6,593	37,177	194,014	(D)	(D)	(D)
293	Coke and byproducts.....	4	4	1,337	7,399	1,214	2,724	6,477	20,546	54,625	(D)	(D)	(D)
2932	Byproduct coke ovens.....	4	4	1,337	7,399	1,214	2,724	6,477	20,546	54,625	(D)	(D)	(D)
295	Paving and roofing materials.	15	4	358	1,642	279	590	1,109	3,372	(2)	181	240	2,704
2951	Paving mixtures and blocks.....	8	2	168	723	133	279	534	1,733	4,521	164	57	(D)
2952	Roofing felts and coatings.....	7	2	189	919	145	311	574	1,638	6,335	17	183	(D)
299	Petroleum and coal products, n.e.c.....	20	9	540	2,990	366	760	1,550	6,700	(2)	258	(D)	(D)
2992	Lubricants, n.e.c.....	16	5	269	1,539	154	305	672	3,684	11,649	165	172	(D)
2999	Petroleum & coal prod., n.e.c..	4	4	301	1,451	212	455	878	3,016	6,230	93	110	447
30	Rubber products.....	51	27	12,521	62,771	10,043	19,057	47,127	105,455	(2)	7,098	15,059	83,597
31	Leather and leather goods..	40	24	4,245	15,608	3,795	6,889	12,613	25,613	(2)	938	4,433	24,454
3111	Leather tanning and finishing	8	6	1,881	7,964	1,687	3,203	6,731	11,374	29,922	522	2,408	15,425
3121	Industrial leather belting...	7	4	737	3,623	599	1,175	2,410	6,292	12,343	(D)	223	1,361
314	Footwear, except rubber.....	9	6	1,021	2,535	930	1,531	2,191	4,781	(2)	67	926	4,352
32	Stone, clay, and glass products.....	522	112	17,349	78,044	14,314	29,857	58,404	164,432	(2)	17,761	15,631	88,231
3231	Products of purchased glass..	21	7	800	3,290	631	1,233	2,238	6,141	14,081	114	651	4,520
3241	Cement, hydraulic.....	7	7	2,336	10,956	1,954	4,363	8,724	32,349	51,867	6,445	1,884	13,431
325	Structural clay products.....	16	9	661	3,011	608	1,345	2,620	4,318	(2)	109	742	3,056
3259	Structural clay products, nec..	6	5	237	1,027	211	480	900	1,295	1,917	35	193	759
326	Pottery and related products.	15	3	1,846	7,467	1,667	3,290	6,389	9,925	(2)	335	(D)	(D)
327	Concrete and plaster products	357	45	4,467	19,036	3,559	7,706	13,646	39,235	(2)	(D)	3,429	20,919
3271	Concrete products.....	347	38	3,449	14,236	2,697	5,624	9,760	25,270	44,797	2,875	2,525	13,835
329	Nonmetallic mineral products, n.e.c.....	73	34	4,407	20,140	3,404	6,807	13,086	35,916	(2)	1,440	5,864	28,662
3291	Abrasive products.....	30	18	1,724	7,991	1,223	2,431	4,598	15,007	26,855	803	1,473	8,943
3293	Gaskets & asbestos insulations.	21	8	1,907	8,715	1,615	3,200	6,347	14,775	28,999	410	2,823	12,863
33	Primary metal industries...	492	278	77,743	385,043	66,194	131,689	304,135	673,959	(2)	124,913	92,606	427,239
331	Blast furnaces and steel mills.....	10	10	18,880	99,474	16,069	30,865	79,245	218,004	(2)	94,875	(D)	(D)
3312	Blast furnaces and steel mills.	10	10	18,880	99,474	16,069	30,865	79,245	218,004	(2)	94,875	15,603	83,238
332	Iron and steel foundries.....	129	103	32,384	154,468	28,615	57,087	130,019	230,096	(2)	16,618	47,870	188,224
3321	Gray-iron foundries.....	108	86	25,686	125,706	22,786	45,927	106,541	184,786	310,744	11,584	40,146	155,539
3322	Malleable-iron foundries.....	5	5	4,227	18,716	3,649	7,033	15,119	27,497	46,031	4,443	4,812	20,340
3323	Steel foundries.....	16	12	2,471	10,046	2,179	4,126	8,358	17,813	28,141	590	2,912	12,345
335	Nonferrous rolling and drawing.....	32	30	7,192	33,798	5,713	11,517	24,764	68,334	(2)	3,097	7,101	37,109
3351	Copper rolling and drawing....	11	11	4,445	20,758	3,658	7,501	16,224	47,278	125,778	2,417	5,266	27,998
3352	Aluminum rolling and drawing...	13	12	1,771	7,558	1,403	2,683	5,398	11,228	35,606	364	1,303	(D)
3359	Rolling and drawing, n.e.c.....	8	7	975	5,481	651	1,333	3,141	9,828	16,426	316	532	(D)
3361	Nonferrous foundries.....	169	59	6,808	33,111	5,703	11,903	25,060	54,368	100,558	2,433	6,696	23,349
339	Primary metal industries, n.e.c.....	139	69	11,805	61,236	9,546	19,188	42,972	95,513	(2)	7,715	13,058	74,589
3391	Iron and steel forgings.....	32	25	4,470	25,023	3,805	7,479	19,066	34,815	78,011	3,111	5,270	29,232
3392	Wire drawing.....	8	5	2,453	12,172	1,897	3,992	7,336	18,682	52,338	1,518	3,401	15,586
3393	Welded and heavy-riveted pipe..	9	8	2,503	12,547	1,936	3,744	8,557	20,616	36,874	1,277	2,365	16,430
3399	Primary metal industries, nec..	90	31	2,378	11,494	1,907	3,971	8,012	21,399	40,542	1,808	2,022	13,341
34	Fabricated metal products..	1,737	585	91,671	450,343	75,223	154,333	332,451	712,663	(2)	84,535	92,305	500,375
342	Cutlery, tools, and hardware	126	51	23,418	116,124	19,876	41,493	92,081	172,816	(2)	22,951	19,321	88,545
3423	Hand tools, n.e.c.....	33	10	1,416	5,360	1,256	2,412	4,476	9,136	16,341	995	2,186	9,471
3429	Hardware, n.e.c.....	66	37	21,689	109,331	18,392	38,644	86,795	161,019	304,418	21,872	16,759	77,014
343	Heating and plumbing equipment.....	64	29	5,304	23,506	4,178	8,176	16,489	47,839	(2)	3,470	10,885	74,733
3431	Plumbing fixtures and fittings.	15	8	1,858	8,281	1,539	2,982	5,846	17,151	32,905	1,996	1,628	10,277
3439	Heating and cooking equip., nec	49	21	3,446	15,224	2,638	5,194	10,643	30,687	58,098	1,474	9,257	64,456
344	Structural metal products....	389	139	17,105	84,366	12,563	25,424	54,323	138,725	(2)	6,104	10,699	67,221
3441	Structural and ornamental work.	119	44	6,294	31,837	4,466	8,894	19,274	50,058	95,304	2,813	3,653	26,317
3442	Metal doors, sash, and trim....	96	38	5,961	28,713	4,254	8,892	18,404	50,636	92,078	2,034	3,020	18,895
3443	Boiler shop products.....	72	28	2,475	12,277	1,948	3,860	8,424	19,781	37,850	631	2,121	12,403
3444	Sheet-metal work.....	102	29	2,374	11,539	1,894	3,777	8,220	18,248	32,010	625	1,905	9,606
346	Metal stamping and coating...	607	207	23,345	115,702	19,851	40,014	87,190	179,755	(2)	8,825	27,222	136,906
3463	Metal stampings.....	302	138	17,420	90,820	14,777	29,903	68,151	142,106	270,358	6,221	20,736	106,358
3465	Enameling and laquering.....	32	8	713	2,740	616	1,169	2,136	4,525	7,098	164	660	3,017
3468	Plating and polishing.....	247	56	4,781	20,219	4,085	8,196	15,445	30,218	47,083	2,185	5,580	26,270

See footnotes at end of table.



## MANUFACTURES—AREA STATISTICS

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
3471	Fabricated metal products—Continued												
348	Lighting fixtures.....	20	7	1,692	8,630	1,371	2,883	6,489	12,507	30,030	227	1,252	8,976
349	Fabricated wire products.....	81	43	7,857	36,443	6,537	13,334	27,280	53,186	(2)	1,963	13,179	56,126
3493	Metal products, n.e.c.....	448	107	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3494	Steel springs.....	15	7	1,888	10,367	1,583	3,517	8,273	16,260	40,309	(D)	1,235	(D)
3495	Bolts, nuts, washers, & rivets.	57	29	4,583	24,369	3,908	8,326	18,357	42,857	85,204	(D)	3,633	31,589
35	Screw machine products.....	315	61	5,073	24,831	4,283	9,072	17,992	40,843	71,887	1,697	4,213	24,369
351	Machinery, except electrical.....	2,814	878	163,822	879,890	129,243	266,420	641,055	1,482,491	(2)	73,765	150,571	819,904
3519	Engines and turbines.....	18	12	11,778	59,115	9,182	17,668	42,471	111,916	294,006	4,751	14,356	70,113
352	Internal combustion engines....	18	12	11,778	59,115	9,182	17,668	42,471	111,916	294,006	4,751	14,356	70,113
3521	Tractors and farm machinery..	56	25	6,734	31,091	4,970	9,658	20,446	55,292	(2)	(D)	7,651	39,942
3522	Tractors.....	13	6	3,533	17,295	2,627	5,034	10,799	23,813	82,907	(D)	3,556	(D)
353	Farm machinery (exc. tractors).	43	19	3,201	13,795	2,343	4,624	9,646	31,479	60,645	925	4,095	(D)
354	Construction and mining machinery.....	26	13	3,694	17,575	2,867	6,061	12,348	30,549	(2)	2,504	(D)	(D)
3541	Metalworking machinery.....	1,370	447	52,531	338,165	42,812	96,054	257,792	543,298	(2)	25,642	41,976	229,872
3542	Machine tools.....	129	53	9,044	57,166	7,034	15,837	40,508	101,418	157,170	3,436	8,359	43,160
3544	Metalworking machinery.....	43	10	2,156	11,192	1,498	3,186	7,250	19,227	28,125	776	2,564	16,628
3545	Special dies and tools.....	895	271	27,856	195,438	23,931	55,498	158,310	303,779	415,259	16,093	31,053	170,084
355	Metalworking mach. attachments.	303	113	13,474	74,367	10,347	21,531	51,722	118,873	160,328	5,335		
3551	Special-industry machinery, n.e.c.....	120	46	7,452	39,512	5,544	11,745	26,301	61,310	(2)	3,459	6,245	41,644
3553	Food-products machinery.....	25	11	3,093	16,869	2,354	5,094	11,896	25,104	38,736	799	579	2,948
3555	Woodworking machinery.....	18	9	1,323	6,518	949	1,933	4,172	10,401	18,927	1,266	2,494	14,007
3559	Printing-trades machinery.....	15	5	476	2,198	352	677	1,372	3,605	5,026	210	916	5,176
356	Special-industry mach., n.e.c..	55	21	2,508	13,761	1,847	3,960	8,715	21,959	35,052	1,167	2,136	18,869
3561	General industrial machinery.	219	116	22,179	115,562	16,080	32,744	75,501	206,926	(2)	5,566	20,183	119,770
3563	Pumps and compressors.....	26	13	4,921	26,345	3,048	6,091	14,892	41,265	67,281	878	2,635	13,580
3564	Conveyors.....	50	29	5,188	30,032	3,698	7,708	18,868	56,192	91,924	1,429	3,202	23,753
3565	Blowers and fans.....	12	9	1,944	9,685	1,409	2,883	6,137	16,862	23,272	484	2,245	12,740
3566	Industrial trucks and tractors.	26	12	2,744	13,547	2,081	4,215	9,680	21,524	53,206	1,019	1,942	15,563
3567	Power-transmission equipment...	51	29	4,837	23,768	4,057	8,202	18,426	47,332	66,456	1,192	5,705	29,263
357	Industrial furnaces and ovens..	18	10	795	4,447	568	1,229	2,707	10,706	17,897	178	559	3,806
3579	Office and store machines....	18	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
358	Office and store machines, nec.	9	3	103	390	76	131	256	753	933	17	(D)	(D)
3585	Service and household machines.....	81	41	22,184	106,221	16,723	31,493	71,941	191,651	(2)	5,264	23,500	134,015
3589	Refrigeration machinery.....	40	26	16,206	74,307	12,684	23,678	52,383	114,458	(2)	3,356	18,212	102,360
359	Service & household mach., nec.	17	5	1,042	4,635	690	1,383	2,498	10,806	15,900	445	659	4,987
3591	Miscellaneous machinery parts	906	170	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3593	Valves and fittings, exc. plbg.	40	26	6,306	29,468	4,857	9,640	21,083	42,440	81,789	2,014	7,798	39,329
3594	Ball and roller bearings.....	7	5	4,089	20,108	3,674	7,600	16,672	34,016	50,337	1,468	3,156	(D)
3599	Industrial patterns and molds..	215	45	3,769	20,544	3,208	6,445	16,611	32,734	40,622	1,288	(D)	(D)
	Machine shops.....	631	87	13,562	60,647	10,863	21,611	43,885	103,302	159,451	6,364	9,971	48,821
36	Electrical machinery.....	232	108	20,725	89,883	15,812	30,389	59,928	151,350	(2)	13,274	22,513	104,282
361	Elec. industrial apparatus...	113	60	9,680	45,622	6,985	13,527	28,310	74,985	(2)	(D)	10,542	54,442
3611	Wiring devices and supplies....	11	5	279	1,230	235	474	916	2,039	4,226	70	197	(D)
3614	Motors and generators.....	13	9	2,490	9,777	1,915	3,774	6,712	15,406	27,115	698	4,051	17,067
3617	Electrical welding apparatus...	31	19	1,763	11,215	1,313	3,002	7,496	18,319	33,648	337	1,268	9,782
3621	Electrical appliances.....	27	10	1,753	6,418	1,403	2,508	4,580	9,480	19,526	408	2,195	11,779
366	Communication equipment.....	51	21	5,436	20,430	4,255	7,977	13,847	34,616	(2)	5,591	5,621	20,202
369	Electrical products, n.e.c....	28	7	944	3,513	787	1,530	2,601	5,652	(2)	706	113	513
3691	Storage batteries.....	11	2	575	2,296	479	944	1,768	3,512	15,065	489	72	(D)
37	Transportation equipment...	536	326	375,470	1,883,845	317,335	656,451	1,512,894	3,274,286	(2)	400,972	377,257	1,911,490
371	Motor vehicles and equipment.	353	236	346,079	1,738,924	295,289	612,936	1,414,956	3,009,913	(2)	(D)	370,125	1,880,746
3713	Truck and bus bodies.....	22	6	325	1,289	277	543	1,033	2,321	4,818	59	1,789	(D)
3717	Motor vehicles and parts.....	282	200	341,905	1,721,069	291,748	605,994	1,401,591	2,983,120	(2)	394,354	364,279	1,854,033
372	Aircraft and parts.....	123	68	25,088	126,596	18,436	36,589	84,332	241,186	(2)	4,299	1,954	10,118
3722	Aircraft engines.....	42	31	7,892	44,938	6,068	13,055	31,806	85,086	147,695	1,835	451	2,414
373	Ships and boats.....	48	16	3,111	12,145	2,641	5,006	9,309	15,864	(2)	824	2,677	9,117
3731	Ship building and repairing....	6	5	895	4,143	738	1,488	2,870	5,195	7,206	259	601	1,621
3732	Boat building and repairing....	42	11	2,216	8,002	1,902	3,517	6,438	10,668	22,426	565	2,076	7,496
38	Instruments and related products.....	101	32	9,229	43,618	6,892	14,519	29,768	80,373	(2)	1,385	4,840	20,058
3821	Mech. measuring instruments..	26	12	3,354	15,314	2,526	4,934	9,893	23,975	48,095	458	2,174	7,971
384	Medical equipment and supplies.....	36	7	1,057	3,818	772	1,484	2,285	6,630	(2)	132	738	3,618
3842	Surgical & medical instruments.	23	4	697	2,279	515	990	1,431	3,862	7,817	86	407	(D)
3861	Photographic equipment.....	17	5	1,698	8,249	1,191	2,282	5,178	17,102	29,038	326	1,227	6,109

See footnotes at end of table.



Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
39	Miscellaneous manufactures <sup>5</sup>	585	167	23,835	103,388	18,608	36,892	71,116	202,023	( <sup>2</sup> )	4,721	12,798	58,563
391	Jewelry and silverware.....	24	6	402	1,700	257	506	930	2,792	( <sup>2</sup> )	(D)	375	1,943
3911	Jewelry (precious metal).....	17	5	328	1,454	194	377	713	2,403	4,599	(D)	364	(D)
393	Musical instruments and parts	13	7	936	3,490	831	1,604	2,881	4,984	( <sup>2</sup> )	46	391	(D)
394	Toys and sporting goods.....	116	31	4,908	17,211	4,013	7,367	11,306	32,816	( <sup>2</sup> )	1,141	6,026	26,712
3941	Games and toys, n.e.c.....	33	10	1,442	4,859	1,213	2,081	3,033	9,283	15,562	(D)	1,698	5,833
3949	Sporting and athletic goods...	80	21	3,458	12,337	2,793	5,274	8,260	23,506	40,540	856	3,619	16,910
3953	Hand stamps and stencils.....	28	3	229	1,013	160	306	587	1,568	2,173	42	254	1,458
396	Costume jewelry and notions..	10	4	273	771	236	382	509	1,061	( <sup>2</sup> )	92	507	2,346
3962	Artificial flowers.....	4	2	126	290	112	199	205	417	685	14	43	(D)
3971	Plastics products, n.e.c.....	126	41	3,161	12,727	2,570	5,054	8,673	23,745	48,714	(D)	1,398	6,485
398	} Miscellaneous manufactures <sup>5</sup> ..	54	15	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
399													
3981		Brooms and brushes.....	21	3	218	818	179	338	537	1,393	2,810	22	164
3988	Morticians' goods.....	25	10	456	1,703	346	663	1,055	2,340	5,022	46	642	2,854
3993	Signs and advertising displays.	112	16	1,210	5,926	947	1,936	4,192	9,015	15,538	328	849	3,983
1900	Ordnance and accessories.....	52	35	10,749	52,623	8,058	16,769	36,670	114,779	( <sup>2</sup> )	1,290	(D)	(D)

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industries (4-digit) and industry groups (3-digit) are not shown. Industries and industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "all industries" line.

<sup>2</sup>The total value of shipments figures for industry groups and a few individual industries have not been published due to the extensive and unmeasurable duplication arising from shipments from one establishment to another in the same industry classification. (See Introduction.)

<sup>3</sup>The 1954 and 1947 "all industries" totals are not strictly comparable because of differences in scope between the two years in major groups 20 and 24 (see footnote 4).

<sup>4</sup>Comparable data for Major groups 20 and 24 are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude establishments in S.I.C. Industry 2411, Logging Camps and Contractors, which are included in the scope of the 1954 Census; the 1947 Census also excludes plants processing and distributing fluid milk which in 1954 are classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
20	Food and kindred products except sub-group 202, Dairy products.....	45,006	397,481	43,560	257,077
24	Lumber and wood products except Industry 2411, Logging camps and contractors.....	12,377	64,770	16,817	72,254

<sup>5</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)

## MANUFACTURES—AREA STATISTICS

Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947  
(For explanation of column captions see Introduction)

Code	Industry group	Establish- ments, number	1954							1947	
			All employees		Production workers			Value added by manufacture	Capital expendi- tures, new	All employees, number	Value added by manufacture
			Number	Payroll (\$1,000)	Number	Man-hours ((1,000)	Wages (\$1,000)				
DETROIT STANDARD METROPOLITAN AREA (Consist of Macomb, Oakland, and Wayne Counties, Michigan)											
	All industries, total <sup>1</sup> ...	6,159	538,223	2,773,349	434,365	881,589	2,073,287	4,713,167	480,818	2,557,241	2,912,660
20	Food and kindred products...	485	23,528	110,034	15,184	31,583	61,063	213,568	13,230	( <sup>3</sup> )	( <sup>3</sup> )
201	Meat products.....	103	3,268	15,028	2,376	5,067	10,095	27,540	1,100	3,655	19,443
202	Dairy products.....	97	3,862	20,688	2,051	4,547	9,012	49,764	3,049	( <sup>3</sup> )	( <sup>3</sup> )
203	Canned and frozen foods.....	17	245	878	202	413	486	1,839	723	769	3,610
205	Bakery products.....	111	7,192	33,085	4,578	9,627	17,830	49,749	1,631	7,688	39,246
207	Candy and related products.....	16	683	2,366	631	1,321	2,038	2,864	334	(D)	(D)
208	Beverages.....	42	5,609	28,170	3,493	7,161	16,190	66,491	5,845	5,051	41,329
22	Textile mill products.....	20	1,270	5,237	1,068	2,204	4,069	10,140	241	1,960	13,088
229	Miscellaneous textiles goods...	14	1,257	5,213	1,057	2,183	4,046	10,139	239	1,895	12,806
23	Apparel & related products..	168	5,026	20,024	4,143	8,046	14,801	29,852	6,036	3,623	16,008
232	Men's and boys' furnishings....	22	500	1,371	441	811	1,077	1,673	66	498	1,759
233	Women's and misses outerwear...	23	466	1,294	423	756	1,086	2,147	31	426	2,288
238	Miscellaneous apparel.....	18	326	968	278	478	630	2,152	28	(D)	(D)
239	Fabricated textiles, nec.....	91	3,539	15,743	2,830	5,656	11,427	22,468	5,897	1,970	8,879
24	Lumber and wood products....	152	2,548	10,138	2,064	4,083	7,335	16,732	613	2,318	15,359
243	Millwork & related products....	81	1,264	5,235	984	1,968	3,697	8,930	361	568	2,932
244	Wooden containers.....	24	409	1,623	353	676	1,225	2,518	71	(D)	(D)
249	Miscellaneous wood products....	32	744	2,790	618	1,151	2,050	4,447	150	(D)	(D)
25	Furniture and fixtures.....	153	3,017	13,611	2,427	4,900	9,584	22,026	1,245	2,417	11,030
251	Household furniture.....	79	2,003	8,999	1,599	3,183	6,149	14,896	751	1,853	8,080
253	Public and professional furn...	6	203	1,018	180	389	831	1,936	33	(D)	(D)
254	Partitions and fixtures.....	34	591	2,861	485	1,000	2,130	3,732	421	340	1,824
256	Screens, shades and blinds.....	25	182	609	130	263	375	1,193	35	70	332
26	Pulp, paper and products....	54	5,063	24,360	4,054	8,303	17,400	37,939	5,437	4,128	22,999
265	Envelopes.....	5	438	2,207	329	674	1,288	3,161	59	(D)	(D)
267	Paperboard.....	22	1,207	5,077	968	1,946	3,528	7,870	411	914	6,101
27	Printing and publishing.....	588	15,267	84,530	9,049	17,752	50,581	136,010	6,736	11,939	82,423
271	Newspapers.....	85	6,298	38,247	2,830	5,556	20,398	60,967	4,295	4,835	38,169
272	Periodicals.....	34	396	1,715	78	124	316	4,169	76	340	2,925
273	Books.....	22	254	1,204	177	345	737	1,948	94	(D)	(D)
274	Miscellaneous publishing.....	18	849	2,504	34	66	176	5,424	23	(D)	(D)
275	Commercial printing.....	275	3,345	16,324	2,639	4,940	11,873	27,646	886	3,015	17,036
276	Lithographing.....	63	1,531	8,861	1,203	2,308	5,786	13,371	601	945	6,903
278	Bookbinding.....	23	887	3,839	771	1,435	2,803	5,751	326	780	3,346
279	Printing trade.....	68	1,704	11,835	1,314	2,976	8,490	16,732	431	1,408	10,210
28	Chemicals and products.....	226	17,885	87,603	12,489	25,240	54,118	219,117	12,029	18,594	123,712
281	Inorganic chemicals.....	11	5,546	27,527	4,202	8,372	18,615	52,709	4,770	5,890	33,238
282	Organic chemicals.....	8	1,052	5,491	741	1,579	3,545	15,150	1,117	(D)	(D)
283	Drugs and medicines.....	33	5,477	26,485	3,920	7,615	16,335	59,337	1,976	(D)	(D)
284	Soap and related products.....	52	925	4,674	611	1,058	2,386	40,177	2,315	451	4,328
285	Paints and allied products.....	51	3,015	14,796	1,840	3,587	7,389	33,367	758	2,847	24,562
288	Vegetable and animal oils.....	8	645	3,111	505	1,184	2,368	7,232	241	681	6,318
29	Petroleum and coal products.	38	2,780	15,611	2,291	4,975	11,987	48,183	7,353	2,580	35,323
291	Petroleum refining.....	6	774	4,836	610	1,268	3,565	20,746	(D)	645	12,663
293	Coke and byproducts.....	4	1,337	7,399	1,214	2,724	6,477	20,546	(D)	(D)	(D)
299	Petroleum & Coal prod., nec....	15	322	1,760	198	403	857	3,724	192	220	2,383
30	Rubber products.....	28	8,718	46,347	6,845	12,983	34,475	70,469	5,709	11,108	(D)
31	Leather and leather goods...	16	(D)	(D)	(D)	(D)	(D)	(D)	(D)	544	(D)
32	Stone, clay, & glass prod...	193	9,375	45,080	7,757	15,731	32,950	80,571	9,242	9,064	51,308
323	Products of purchased glass....	15	648	2,753	506	989	1,833	5,401	93	(D)	(D)
325	Structure clay products.....	7	322	1,572	305	676	1,369	2,203	66	435	1,737
326	Pottery & related products....	11	1,755	7,023	1,588	3,141	6,004	8,867	221	(D)	(D)
327	Concrete & plaster products....	87	1,794	8,825	1,437	3,025	5,991	18,215	1,588	1,151	5,332
329	Nonmet. mineral prod., nec.....	48	2,437	12,020	1,829	3,581	7,303	19,418	610	3,716	17,663
33	Primary metal industries....	253	46,521	240,045	39,487	78,457	188,887	448,947	108,313	56,912	275,326
331	Blast furnaces & steel mills...	10	18,880	99,474	16,069	30,865	79,245	218,004	94,875	(D)	(D)
332	Iron and steel foundries.....	36	12,535	63,955	11,139	22,559	54,757	103,470	5,323	22,820	87,331
334	Secondary nonferrous metals....	9	347	1,640	265	523	1,117	2,631	130	(D)	(D)
335	Nonferrous rolling & drawing...	18	4,118	20,340	3,365	6,822	15,355	40,327	2,342	4,503	25,497
336	Nonferrous foundries.....	83	2,846	14,129	2,320	4,801	10,155	20,611	665	3,801	16,062
339	Primary metal industries, nec..	97	7,795	40,506	6,327	12,885	28,255	63,903	4,976	8,390	50,188

See footnotes at end of table.



Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947--Continued  
(For explanation of column captions see Introduction)

Code	Industry group	Establish- ments, number	1954							1947	
			All employees		Production workers			Value added by manufacture	Capital expendi- tures, new	All employees, number	Value added by manufacture
			Number	Payroll (\$1,000)	Number	Man-hours ((1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
34	Fabricated metal products...	1,100	53,473	275,163	43,702	90,098	200,689	433,552	56,576	56,267	316,655
342	Cutlery, tools and hardware....	74	10,005	52,036	8,367	17,800	40,737	73,654	4,616	9,732	41,284
343	Heating and plumbing equipment.	29	2,085	8,728	1,740	3,352	6,617	17,550	2,167	(D)	(D)
344	Structural metal products.....	241	10,814	56,091	7,891	16,015	36,095	89,191	3,745	7,745	52,188
346	Metal stamping and coating.....	391	16,049	84,038	13,578	27,559	62,466	132,264	5,208	20,894	106,767
348	Fabricated wire products.....	49	4,337	20,386	3,600	7,199	15,077	30,882	1,012	(D)	(D)
349	Metal products, nec.....	297	9,337	49,765	7,875	16,883	36,986	83,807	39,647	7,192	55,577
35	Machinery, exc. electrical..	1,910	94,059	543,143	74,482	155,479	396,343	881,541	46,948	84,504	462,151
352	Tractors and farm machinery....	12	3,205	15,793	2,358	4,521	9,686	20,326	10,111	(D)	(D)
353	Construction & mining mach.....	9	1,304	6,658	954	1,906	4,406	11,776	126	(D)	(D)
354	Metalworking machinery.....	1,039	41,056	277,427	33,746	76,190	213,328	448,076	20,207	33,926	187,830
355	Special industry mach., nec....	51	2,789	16,298	2,160	4,545	11,182	25,866	651	1,126	7,305
356	General industry machinery.....	141	13,333	75,027	9,498	19,507	47,355	123,837	2,835	12,816	71,571
358	Service & household machines...	39	4,618	22,020	2,870	4,303	9,623	23,090	767	7,402	40,711
359	Miscellaneous mach. parts.....	595	14,279	68,148	11,982	23,824	53,059	114,722	6,887	11,394	65,617
36	Electrical machinery.....	127	7,012	33,673	4,943	8,862	20,015	60,488	1,322	9,085	46,874
361	Elec. industrial apparatus.....	74	5,401	27,387	3,691	6,723	15,924	48,972	649	4,821	27,926
362	Electrical appliances.....	13	727	2,646	576	930	1,789	4,064	89	828	4,766
364	Engine elec. equipment.....	6	168	703	135	238	444	1,485	10	(D)	(D)
366	Communication equipment.....	21	547	2,239	409	723	1,379	4,515	149	1,833	6,978
369	Electrical products, nec.....	13	168	697	130	246	477	1,450	423	(D)	(D)
37	Transportation equipment....	281	229,899	1,159,415	194,669	393,672	930,564	1,915,498	197,177	254,008	1,214,872
371	Motor vehicles and equipment...	180	212,829	1,072,331	181,572	368,309	870,352	1,770,912	193,415	250,678	1,197,162
372	Aircraft and parts.....	76	15,206	77,815	11,561	22,275	53,757	134,036	3,309	1,777	9,375
38	Instruments & related prod..	54	1,446	7,324	986	1,956	4,067	11,258	224	1,155	5,899
382	Mech. measuring instruments...	13	443	2,738	261	504	1,202	3,332	71	(D)	(D)
384	Medical equip. and supplies....	17	405	1,659	294	553	932	2,874	48	490	2,440
39	Miscellaneous manufactures <sup>4</sup> .	307	9,879	46,053	7,542	15,082	30,558	64,931	1,948	5,108	25,916
394	Toys and sporting goods.....	40	1,219	4,321	1,011	1,728	2,520	7,973	373	2,166	9,993
395	Office supplies.....	19	173	830	121	233	476	1,313	37	223	1,336
397	Plastics products, nec.....	66	1,245	5,335	997	1,922	3,383	9,740	(D)	453	2,290
398	Miscellaneous manufactures <sup>4</sup> ....	153	6,750	33,682	5,080	10,593	23,133	42,957	723	1,607	8,951
FLINT STANDARD METROPOLITAN AREA (Consists of Genesee County, Michigan)											
	All industries, total <sup>1</sup> ...	286	75,410	387,681	63,979	137,996	316,466	713,846	149,069	<sup>2</sup> 54,774	<sup>2</sup> 323,205
20	Food and kindred products...	51	1,523	(D)	764	(D)	(D)	(D)	(D)	( <sup>3</sup> )	( <sup>3</sup> )
22	Textile mill products.....	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
23	Apparel & related products...	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
24	Lumber and wood products....	11	165	(D)	124	(D)	(D)	(D)	(D)	102	(D)
25	Furniture and fixtures.....	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	74	(D)
26	Pulp, paper and products....	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...	...
27	Printing and publishing.....	37	794	(D)	499	(D)	(D)	(D)	(D)	556	(D)
28	Chemicals and products.....	13	545	(D)	378	(D)	(D)	(D)	(D)	556	(D)
30	Leather and leather goods...	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...	...
32	Stone, clay & glass prod....	20	202	(D)	168	(D)	(D)	(D)	(D)	116	(D)
33	Primary metal industries....	5	304	(D)	252	(D)	(D)	(D)	(D)	405	(D)
34	Fabricated metal products...	31	5,774	(D)	4,934	(D)	(D)	(D)	(D)	303	(D)
35	Machinery, exc. electrical..	66	732	(D)	601	(D)	(D)	(D)	(D)	1,260	(D)
36	Electrical machinery.....	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
37	Transportation equipment....	18	62,051	(D)	53,822	(D)	(D)	(D)	(D)	50,304	(D)
38	Instruments and related prod.	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
39	Miscellaneous manufactures <sup>4</sup> ....	14	2,704	(D)	1,913	(D)	(D)	(D)	(D)	77	(D)
GRAND RAPIDS STANDARD METROPOLITAN AREA (Consists of Kent County, Michigan)											
	All industries, total <sup>1</sup> ...	776	52,337	244,270	41,221	86,735	177,077	454,194	27,710	<sup>2</sup> 49,241	<sup>2</sup> 255,255
20	Food and kindred products...	130	4,031	15,666	2,596	5,576	8,681	27,958	2,018	( <sup>3</sup> )	( <sup>3</sup> )
201	Meat products.....	17	492	1,867	379	861	1,295	3,288	248	418	2,976
202	Dairy products.....	49	716	2,920	335	772	1,201	5,245	349	( <sup>3</sup> )	( <sup>3</sup> )
205	Bakery products.....	23	2,368	9,503	1,535	3,291	5,290	16,523	1,057	1,459	7,074
208	Beverages.....	9	179	620	121	253	358	1,137	102	325	2,270
209	Miscellaneous foods.....	18	109	283	88	123	196	642	148	(D)	(D)
21	Tobacco manufactures.....	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	73	(D)
22	Textile mill products.....	7	883	3,314	744	1,445	2,364	5,060	224	1,667	6,411

See footnotes at end of table.



## MANUFACTURES—AREA STATISTICS

Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947--Continued

(For explanation of column captions see Introduction)

Code	Industry group	Establishments, number	1954							1947	
			All employees		Production workers			Value added by manufacture	Capital expenditures, new	All employees, number	Value added by manufacture
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
23	Apparel & related products..	20	197	591	162	286	402	1,117	22	291	1,250
24	Lumber and wood products....	51	1,331	5,261	1,008	2,018	3,481	9,173	214	1,551	6,620
242	Lumber and basic products.....	16	224	861	209	425	796	1,216	65	(D)	(D)
243	Millwork and related products..	10	626	2,553	401	803	1,419	4,902	51	(D)	(D)
25	Furniture and fixtures.....	91	7,897	34,929	6,403	13,883	26,028	58,057	1,585	8,557	36,999
251	Household furniture.....	68	3,597	14,270	3,065	6,888	11,163	21,461	440	5,026	19,400
252	Office furniture.....	9	1,335	6,688	1,125	2,343	5,202	14,583	175	838	5,720
253	Public and professional furn...	4	2,248	10,758	1,641	3,261	7,357	16,411	892	(D)	(D)
26	Pulp, paper and products....	15	1,452	6,853	1,078	2,324	4,405	12,412	651	1,060	7,473
267	Paperboard containers.....	7	855	3,865	598	1,240	2,306	7,090	146	(D)	(D)
27	Printing and publishing.....	101	2,288	10,328	1,490	2,825	6,289	17,641	986	1,833	10,959
271	Newspaper.....	11	675	3,085	369	617	1,746	5,925	280	(D)	(D)
273	Books.....	9	257	977	111	217	393	1,859	106	185	1,068
275	Commercial printing.....	42	732	3,350	537	1,080	2,163	5,568	247	617	3,248
276	Lithographing.....	13	300	1,402	237	456	918	2,032	273	(D)	(D)
279	Printing trade services.....	12	201	1,124	161	325	826	1,607	37	150	917
28	Chemicals and products.....	24	599	3,070	309	655	1,184	4,036	261	432	3,036
285	Paints and allied products....	8	369	2,220	189	396	799	2,699	187	(D)	(D)
29	Petroleum and coal products.	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	39	(D)
30	Rubber products.....	6	609	2,609	491	977	1,839	4,103	241	(D)	(D)
309	Rubber industries.....	6	609	2,609	491	977	1,839	4,103	241	(D)	(D)
31	Leather and leather goods...	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	572	(D)
32	Stone, clay, & glass prod...	25	729	3,325	603	1,400	2,545	7,010	497	699	3,472
327	Concrete & plaster products....	19	599	2,763	502	1,193	2,189	6,352	454	418	2,676
33	Primary metal industries....	31	1,917	8,267	1,637	3,109	6,271	12,608	385	1,486	6,800
332	Iron and steel foundries.....	8	589	2,316	509	900	1,835	3,582	189	(D)	(D)
336	Nonferrous foundries.....	14	442	2,347	388	814	1,772	3,918	106	(D)	(D)
34	Fabricated metal products...	106	8,752	41,404	7,398	14,743	31,802	65,279	2,312	9,210	47,518
342	Cutlery, tools, and hardware...	13	4,298	21,471	3,634	7,444	16,743	36,780	1,094	5,253	28,584
344	Structural metal products.....	23	549	2,358	399	808	1,530	4,040	139	370	2,018
346	Metal stamping and coating....	45	1,910	8,223	1,669	3,206	6,782	10,909	736	1,548	7,930
348	Fabricated wire products.....	6	883	3,870	787	1,485	3,062	4,530	62	(D)	(D)
35	Machinery, exc. electrical..	91	5,965	30,099	4,708	10,137	21,648	57,074	2,738	9,340	57,071
354	Metalworking machinery.....	34	1,381	8,660	1,163	2,711	6,673	12,977	1,237	421	2,195
355	Special-industry mach., nec....	14	479	2,281	313	648	1,270	2,845	264	675	4,388
356	General industrial machinery...	10	914	4,661	599	1,198	2,520	9,517	307	951	6,535
359	Miscellaneous mach. parts.....	22	143	602	120	230	459	923	36	271	1,178
36	Electrical machinery.....	12	1,031	4,378	813	1,593	3,087	6,931	128	1,527	(D)
366	Communication equipment.....	5	800	3,454	628	1,227	2,468	5,010	96	(D)	(D)
37	Transportation equipment....	19	10,313	(D)	8,325	(D)	(D)	(D)	(D)	6,833	36,134
38	Instruments & related prod..	3	2,543	(D)	1,924	(D)	(D)	(D)	(D)	(D)	(D)
39	Miscellaneous manufactures <sup>4</sup> .	38	1,279	5,088	1,067	2,026	3,824	8,534	559	721	3,180
394	Toys and sporting goods.....	9	261	811	226	404	685	1,521	35	268	1,076
398	Miscellaneous manufactures <sup>4</sup> ....	17	841	3,741	694	1,361	2,718	6,099	488	210	977

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industry groups (3-digit) are not shown. Industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "All industries" line.

<sup>2</sup>The 1954 and 1947 "All industries" totals are not strictly comparable because of differences in scope between the two years in Major group 20 (see footnote 3).

<sup>3</sup>Comparable data for Major group 20 are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude plants processing and distributing fluid milk which in 1954 were classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
20	Food and kindred products except Sub-group 202, Dairy Products:				
	Detroit standard metropolitan area	19,666	163,804	20,248	120,514
	Flint standard metropolitan area..	873	7,709	700	4,000
	Grand Rapids standard metropolitan area.....	3,315	22,713	2,502	13,841

<sup>4</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)

Table 6.—GENERAL STATISTICS FOR PRINCIPAL INDUSTRIAL COUNTIES, BY MAJOR INDUSTRY GROUP: 1954 AND 1947

(Principal industrial counties include all counties with 20,000 or more manufacturing employees. For explanation of column captions see Introduction)

Code	Major industry group	1954							1947		
		Establish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendit- ures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
BERRIEN COUNTY											
	All industries, total <sup>1</sup> .....	293	20,831	92,240	16,086	31,922	64,013	178,497	9,176	<sup>2</sup> 18,344	<sup>2</sup> 89,819
20	Food and Kindred products.....	42	1,317	4,512	957	1,983	2,807	7,751	543	(NA)	(NA)
24	Lumber and wood products.....	12	189	481	165	334	371	605	15	(NA)	(NA)
25	Furniture and Fixtures.....	8	234	857	199	384	598	969	33	(NA)	(NA)
26	Pulp, paper and products.....	11	1,932	7,007	1,668	3,397	5,764	16,071	737	(NA)	(NA)
27	Printing and publishing.....	33	948	3,733	664	1,386	2,639	7,417	413	(NA)	(NA)
32	Stone, clay, and glass products	14	175	708	127	242	402	1,200	66	(NA)	(NA)
33	Primary metal industries.....	22	2,587	12,364	2,190	4,394	9,045	18,697	1,175	(NA)	(NA)
34	Fabricated metal products.....	45	2,457	10,318	1,843	3,604	6,661	19,110	1,283	(NA)	(NA)
35	Machinery, except electrical...	55	5,735	29,886	4,127	7,942	19,764	67,591	3,232	(NA)	(NA)
36	Electrical machinery.....	9	1,498	5,934	1,141	2,270	3,812	12,899	340	(NA)	(NA)
37	Transportation equipment.....	11	2,549	11,549	2,024	4,059	8,656	17,028	1,029	(NA)	(NA)
39	Miscellaneous manufactures <sup>3</sup> ....	17	401	1,718	327	656	1,203	4,336	171	(NA)	(NA)
CALHOUN COUNTY											
	All industries total <sup>1</sup> .....	197	21,102	94,073	16,236	31,903	67,824	239,018	7,641	<sup>2</sup> 19,758	<sup>2</sup> 126,630
20	Food and kindred products.....	49	6,925	30,575	5,352	10,401	22,222	101,427	3,289	(NA)	(NA)
24	Lumber and wood products.....	12	131	418	106	212	336	643	37	(NA)	(NA)
26	Pulp, paper, and products.....	8	1,693	7,651	1,435	2,838	6,103	19,839	489	(NA)	(NA)
27	Printing and publishing.....	30	566	2,512	362	667	1,583	3,934	205	(NA)	(NA)
28	Chemicals and products.....	5	110	485	85	173	367	1,195	17	(NA)	(NA)
33	Primary metal industries.....	9	1,192	5,118	994	1,845	3,832	7,370	700	(NA)	(NA)
34	Fabricated metal products.....	21	2,171	9,135	1,699	3,374	6,511	14,242	556	(NA)	(NA)
35	Machinery, except electrical...	23	5,437	25,536	4,227	8,514	19,154	44,864	1,702	(NA)	(NA)
37	Transportation equipment.....	6	1,818	8,663	1,059	2,044	4,462	24,961	441	(NA)	(NA)
39	Miscellaneous manufactures <sup>3</sup> ....	6	117	334	102	193	250	409	1	(NA)	(NA)
Genessee County is coextensive with the Flint Standard Metropolitan Area. Data for this area are shown in Table 5.											
INGHAM COUNTY											
	All industries, total <sup>1</sup> .....	209	29,394	150,248	24,251	56,037	117,558	318,340	15,350	<sup>2</sup> 25,852	<sup>2</sup> 155,054
20	Food and Kindred products.....	38	1,003	4,287	617	1,190	2,080	8,917	665	686	5,328
27	Printing and publishing.....	35	942	4,285	612	1,151	2,603	7,467	151	681	(D)
28	Chemicals and products.....	9	196	865	148	259	445	2,348	316	163	(D)
32	Stone, clay, and glass products	8	110	457	60	148	202	584	95	71	333
33	Primary metal industries.....	12	1,905	10,269	1,607	3,122	7,743	14,540	1,291	2,216	11,333
34	Fabricated metal products.....	35	1,340	6,482	1,086	2,121	4,597	11,452	324	1,818	11,364
35	Machinery, except electrical...	38	2,090	10,929	1,607	3,337	7,978	16,555	461	2,218	11,335
39	Miscellaneous manufactures <sup>3</sup> ....	9	504	2,274	419	861	1,726	3,033	18	77	493
KALAMAZOO COUNTY											
	All industries, total <sup>1</sup> .....	267	23,948	108,035	18,502	38,729	74,800	221,408	18,369	<sup>2</sup> 20,867	<sup>2</sup> 150,412
20	Food and Kindred products.....	38	1,085	4,396	750	1,638	2,696	8,224	747	743	3,982
23	Apparel and related products...	6	429	1,252	386	762	963	2,464	17	368	1,561
26	Pulp, paper and products.....	26	9,082	40,091	7,860	17,287	33,223	64,265	6,267	7,945	48,619
27	Printing and publishing.....	33	951	4,501	668	1,362	2,897	7,609	542	792	4,627
28	Chemicals and products.....	18	3,119	16,154	1,880	3,744	7,986	72,121	2,957	2,099	(D)
32	Stone, clay, & glass products..	9	206	868	168	403	631	1,773	55	160	714
33	Primary metal industries.....	12	354	1,362	313	573	1,098	1,789	122	549	2,427
34	Fabricated metal products.....	27	1,236	5,280	1,024	2,058	3,763	8,830	850	2,926	17,660
35	Machinery, except electrical...	41	1,670	7,552	1,139	2,334	4,554	13,600	528	1,667	11,841
37	Transportation equipment.....	16	2,389	11,539	1,785	3,538	7,679	19,235	827	1,735	9,327
39	Miscellaneous manufactures <sup>3</sup> ....	18	2,185	9,679	1,610	3,107	6,108	15,265	429	1,193	5,518
Kent County is coextensive with the Grand Rapids Standard Metropolitan Area. Data for this area are shown in Table 5.											

See footnotes at end of table



## MANUFACTURES—AREA STATISTICS

Table 6.—GENERAL STATISTICS FOR PRINCIPAL INDUSTRIAL COUNTIES, BY MAJOR INDUSTRY GROUP: 1954 AND 1947—Continued  
 (Principal industrial counties include all counties with 20,000 or more manufacturing employees. For explanation of column captions see Introduction)

Code	Major industry group	1954							1947			
		Establish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendit- ures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)	
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
		MACOMB COUNTY										
	All industries, total <sup>1</sup> .....	746	35,120	181,898	28,761	59,182	137,472	281,192	38,496	<sup>2</sup> 14,843	<sup>2</sup> 106,404	
20	Food and Kindred products.....	23	327	1,105	218	470	704	1,495	182	(NA)	(NA)	
24	Lumber and wood products.....	23	216	804	174	346	576	1,366	72	(NA)	(NA)	
25	Pulp, paper and products.....	13	285	1,243	246	479	1,034	2,333	90	(NA)	(NA)	
27	Printing and publishing.....	22	187	752	117	237	528	1,208	83	(NA)	(NA)	
28	Chemicals and products.....	10	123	609	97	196	396	894	57	(NA)	(NA)	
32	Stone, clay, & glass products..	17	696	2,421	647	1,296	2,045	4,074	143	(NA)	(NA)	
33	Primary metal industries.....	20	1,820	8,969	1,559	2,934	6,776	18,034	2,011	(NA)	(NA)	
34	Fabricated metal products.....	166	6,506	32,164	5,342	10,597	23,038	50,097	4,764	(NA)	(NA)	
35	Machinery, except electrical...	344	8,239	51,286	6,488	14,227	37,287	82,324	5,898	(NA)	(NA)	
36	Electrical machinery.....	12	826	3,704	646	1,103	2,443	5,723	81	(NA)	(NA)	
39	Miscellaneous manufactures.....	41	3,450	17,281	2,523	5,300	12,110	20,003	480	(NA)	(NA)	
		MUSKEGON COUNTY										
	All industries, total <sup>1</sup> .....	197	25,272	116,326	20,345	39,485	86,815	186,973	17,985	<sup>2</sup> 30,187	<sup>2</sup> 142,616	
20	Food and Kindred products.....	35	561	2,267	288	581	942	3,517	370	406	2,159	
25	Furniture and Fixtures.....	7	1,892	7,859	1,625	3,221	6,423	10,913	161	1,627	8,509	
27	Printing and publishing.....	17	442	1,785	342	667	1,366	4,008	79	399	2,876	
28	Chemicals and products.....	5	127	482	96	166	339	656	3,664	22	(D)	
33	Primary metal industries.....	18	4,359	18,766	3,625	6,697	14,520	28,045	909	7,860	33,833	
34	Fabricated metal products.....	22	858	3,926	705	1,410	2,747	5,582	384	544	2,115	
35	Machinery, except electrical...	46	13,832	67,208	11,104	21,341	50,149	110,883	5,701	15,711	73,777	
37	Transportation equipment.....	9	842	4,022	685	1,438	2,971	6,831	445	834	4,150	
		OAKLAND COUNTY										
	All industries, total <sup>1</sup> .....	1,051	57,624	300,460	47,184	97,954	225,631	531,955	64,350	<sup>2</sup> 44,566	<sup>2</sup> 261,462	
20	Food and Kindred products.....	51	644	3,033	375	848	1,305	4,983	481	416	2,322	
23	Apparel and related products...	11	234	947	193	392	538	1,503	17	(D)	(D)	
24	Lumber and wood products.....	31	408	1,589	324	673	1,109	2,770	200	258	1,108	
25	Furniture and Fixtures.....	26	242	1,182	178	388	715	948	30	34	(D)	
26	Pulp, paper and products.....	5	355	1,532	299	577	1,208	2,125	108	197	(D)	
27	Printing and publishing.....	60	874	3,995	547	1,005	2,275	7,330	163	438	2,668	
28	Chemicals and products.....	28	778	3,787	503	1,045	2,133	9,183	945	529	4,621	
32	Stone, clay, & glass products..	33	415	2,038	334	739	1,329	3,406	451	332	1,683	
33	Primary metal industries.....	33	2,388	11,018	1,949	3,637	8,144	17,365	807	3,064	14,671	
34	Fabricated metal products.....	205	5,597	28,168	4,591	9,335	19,743	42,455	2,369	3,619	17,699	
35	Machinery, except electrical...	417	11,302	70,360	9,162	19,873	51,186	114,778	5,878	5,115	(D)	
36	Electrical machinery.....	28	676	3,680	520	1,072	2,359	5,594	226	225	(D)	
38	Instruments and related prod...	8	129	553	97	184	341	941	41	96	(D)	
39	Miscellaneous manufactures <sup>3</sup> ....	55	865	3,478	686	1,329	2,326	5,888	437	218	995	
		SAGINAW COUNTY										
	All industries, total <sup>1</sup> .....	228	26,625	124,462	21,883	45,203	95,799	236,980	31,437	<sup>2</sup> 22,141	<sup>2</sup> 115,187	
20	Food and Kindred products.....	50	1,834	7,242	1,224	2,549	4,130	15,360	997	1,541	9,571	
24	Lumber and wood products.....	15	134	353	116	201	292	634	40	132	(D)	
25	Furniture and Fixtures.....	7	294	961	280	595	853	1,660	41	814	(D)	
27	Printing and publishing.....	23	386	1,872	224	471	1,070	3,800	126	325	2,269	
28	Chemicals and products.....	10	278	1,247	179	360	625	3,132	535	100	962	
32	Stone clay, & glass products...	15	191	709	148	311	517	1,012	109	659	2,481	
34	Fabricated metal products.....	17	788	3,546	597	1,190	2,335	6,316	212	741	4,481	
35	Machinery, except electrical...	47	4,983	25,539	3,696	7,852	17,094	39,103	1,262	2,414	11,307	
39	Miscellaneous manufactures <sup>3</sup> ....	8	260	869	228	439	706	1,313	24	30	77	
		WASHTENAW COUNTY										
	All industries, total <sup>1</sup> .....	194	21,163	99,821	17,202	33,970	75,033	172,533	24,653	<sup>2</sup> 23,065	<sup>2</sup> 120,298	
20	Food and Kindred products.....	21	543	2,373	336	651	1,053	5,574	179	262	1,470	
27	Printing and publishing.....	34	609	2,450	414	794	1,587	4,415	216	591	3,098	
33	Primary metal industries.....	7	493	2,401	415	839	1,905	4,014	136	399	2,005	
34	Fabricated metal products.....	27	1,118	5,069	931	1,834	3,975	8,231	595	1,578	7,024	
35	Machinery, except electrical...	36	2,266	11,954	1,880	3,978	9,061	21,417	1,743	2,924	(D)	
38	Instruments and related prod...	11	3,344	15,897	2,486	4,719	10,462	29,772	431	2,751	10,730	
39	Miscellaneous manufactures <sup>3</sup> ....	10	211	927	178	365	665	1,492	112	203	1,014	

See footnotes at end of table.



Table 6.—GENERAL STATISTICS FOR PRINCIPAL INDUSTRIAL COUNTIES, BY MAJOR INDUSTRY GROUP: 1954 AND 1947—Continued

(Principal industrial counties include all counties with 20,000 or more manufacturing employees. For explanation of column captions see Introduction)

Code	Major industry group	1954								1947	
		Establish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendit- ures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
		WAYNE COUNTY									
	All industries, total <sup>1</sup> .....	4,362	445,478	2,290,990	358,419	724,452	1,710,181	3,900,018	377,971	2,497,832	22,544,794
20	Food and Kindred products.....	411	22,556	105,895	14,590	30,264	59,054	207,088	12,566	20,535	122,983
23	Apparel and related products...	152	4,773	19,027	3,934	7,627	14,231	28,246	6,017	3,612	15,958
24	Lumber and wood products.....	98	1,923	7,744	1,566	3,063	5,649	12,595	340	1,995	13,987
25	Furniture and fixtures.....	114	2,489	11,186	2,003	4,032	7,834	18,744	1,123	2,340	10,692
26	Pulp, paper and products.....	44	4,603	22,381	3,671	7,535	15,830	34,820	5,248	3,801	20,810
27	Printing and publishing.....	506	14,205	79,782	8,383	16,508	47,777	127,471	6,489	11,413	79,323
28	Chemicals and products.....	188	16,983	83,206	11,889	23,998	51,588	209,039	11,026	18,019	118,701
29	Petroleum and coal products....	35	2,721	15,322	2,248	4,885	11,806	47,571	7,316	(D)	(D)
32	Stone clay, & glass products...	143	8,263	40,620	6,774	13,695	29,575	73,089	8,647	8,174	46,955
33	Primary metal industries.....	200	42,312	220,058	35,977	71,886	173,965	413,547	105,493	51,027	238,374
34	Fabricated metal products.....	729	41,369	214,829	33,767	70,166	157,906	341,000	49,442	51,223	290,022
35	Machinery, except electrical...	1,149	74,516	421,496	58,830	121,379	307,868	684,438	35,171	75,587	405,829
36	Electrical machinery.....	87	5,509	26,289	3,777	6,686	15,212	49,170	1,014	8,283	42,611
37	Transportation equipment.....	196	186,268	940,354	157,803	317,293	754,906	1,520,859	121,020	220,065	(D)
38	Instruments and related prod....	43	1,308	6,747	882	1,762	3,712	10,262	182	1,025	5,288
39	Miscellaneous manufactures <sup>3</sup> ....	211	5,563	25,293	4,332	8,452	16,121	39,038	1,030	4,609	23,691

D Withheld to avoid disclosing data for individual companies.

<sup>1</sup>In order to avoid disclosing data for individual companies, the statistics for some industry groups are not shown. Industry groups reporting less than 100 employees are also omitted. They are included, however, in the "All industries" line.<sup>2</sup>The 1954 and 1947 "All industries" totals are not strictly comparable because of differences in coverage of loggers and fluid milk distributors. See discussion in Introduction and footnote to Table 4 for comparable figures at the State level.<sup>3</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)

## MANUFACTURES—AREA STATISTICS

Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954

20 Food and kindred products	26 Pulp, paper and products	32 Stone, clay, and glass products	38 Instruments and related products
21 Tobacco manufactures	27 Printing and publishing	33 Primary metal industries	39 Miscellaneous manufactures (Includes Group 19 Ordnance and accessories)
22 Textile mill products	28 Chemicals and products	34 Fabricated metal products	
23 Apparel and related products	29 Petroleum and coal products	35 Machinery, except electrical	
24 Lumber and wood products	30 Rubber products	36 Electrical machinery	
25 Furniture and fixtures	31 Leather and leather goods	37 Transportation equipment	

(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establish- ments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Michigan, total.....	12,711	1,677	9	46	291	1,292	406	185	1,257	380	58	51	40	522	492	1,737	2,814	232	536	101	585
1 to 4 employees.....	4,782	569	4	11	119	792	139	24	595	134	8	11	10	241	90	553	1,014	62	111	36	259
5 to 9 employees.....	2,175	331	2	7	41	213	60	9	271	66	5	4	4	111	64	316	480	34	47	19	91
10 to 19 employees.....	1,751	285	1	5	36	129	53	17	142	58	11	9	2	58	60	281	442	28	52	14	68
20 to 49 employees.....	1,774	270	...	5	47	97	59	19	140	43	14	11	4	55	102	287	416	32	75	15	83
50 to 99 employees.....	968	110	...	5	32	34	46	34	65	40	9	4	6	26	61	140	221	33	56	2	44
100 to 249 employees.....	684	77	1	8	8	23	34	43	33	14	7	4	11	17	63	94	128	25	62	6	26
250 to 499 employees.....	279	22	1	5	7	4	10	30	7	14	3	4	1	8	23	33	53	10	32	4	8
500 to 999 employees.....	143	9	...	...	...	...	4	6	1	3	1	2	2	3	18	23	30	6	30	3	2
1,000 to 2,499 employees.....	91	3	...	...	1	...	1	3	3	4	...	1	...	3	6	8	20	2	33	1	2
2,500 employees and over.....	64	1	...	...	...	...	...	...	...	4	...	1	...	...	5	2	10	...	38	1	2
Alcona:																					
1 to 19 employees.....	10	1	...	...	...	4	...	...	2	...	...	...	...	...	...	1	1	...	1	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...
Alger:																					
1 to 19 employees.....	29	2	...	...	...	24	...	...	1	...	...	...	...	1	1	...	...	...	...	...	...
20 to 99 employees.....	3	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	3	...	...	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...
Allegan:																					
1 to 19 employees.....	69	24	...	1	1	8	1	...	8	1	...	...	...	9	2	3	9	...	1	...	1
20 to 99 employees.....	19	4	...	...	1	2	1	2	2	1	...	...	...	...	...	2	3	1	...	...	...
100 employees and over.....	7	2	...	...	...	...	...	3	...	...	...	...	...	...	...	1	1	...	...	...	...
Alpena:																					
1 to 19 employees.....	29	6	...	...	...	8	3	...	4	...	...	...	...	4	...	...	3	...	1	...	...
20 to 99 employees.....	7	1	...	...	1	1	...	...	1	...	...	...	...	1	1	...	1	...	...	...	...
100 employees and over.....	4	...	...	...	1	...	...	1	...	...	...	...	...	1	...	...	1	...	...	...	...
Antrim:																					
1 to 19 employees.....	15	1	...	...	...	8	...	...	2	...	...	...	...	2	...	2	...	...	...	...	...
20 to 99 employees.....	7	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3	...	1	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...
Arenac:																					
1 to 19 employees.....	11	6	...	1	...	2	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	...	...	...
100 employees and over.....	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...
Baraga:																					
1 to 19 employees.....	39	2	...	...	...	34	...	...	1	...	...	...	...	...	...	...	2	...	...	...	...
20 to 99 employees.....	3	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Barry:																					
1 to 19 employees.....	24	5	...	...	...	5	1	...	4	...	...	...	...	3	1	3	2	...	...	...	...
20 to 99 employees.....	8	2	...	...	...	1	1	...	1	...	...	...	...	...	...	2	...	...	1	...	...
100 employees and over.....	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	3	...	...	1
Bay:																					
1 to 19 employees.....	102	27	1	...	1	6	6	1	12	4	...	...	...	8	4	10	14	2	1	...	5
20 to 99 employees.....	33	7	...	1	1	2	2	...	...	...	1	...	...	1	4	7	1	1	3	...	2
100 employees and over.....	22	3	...	...	1	2	2	...	1	...	...	...	...	1	2	...	2	4	4	...	...
Benzie:																					
1 to 19 employees.....	14	3	...	...	2	3	...	...	3	...	...	...	...	...	...	...	2	...	...	1	...
20 to 99 employees.....	6	4	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Berrien:																					
1 to 19 employees.....	188	27	...	...	5	10	5	2	23	3	1	...	...	11	10	34	32	3	7	1	14
20 to 99 employees.....	69	11	...	...	...	2	2	4	9	...	...	2	...	3	5	8	18	2	1	...	2
100 employees and over.....	36	4	...	...	1	...	1	5	1	...	...	1	...	...	7	3	5	4	3	...	1
Branch:																					
1 to 19 employees.....	42	9	...	...	...	4	1	...	6	1	...	...	...	1	1	1	8	3	1	...	6
20 to 99 employees.....	13	1	...	1	1	...	...	...	1	...	...	...	...	...	1	5	2	...	1	...	...
100 employees and over.....	8	...	...	...	...	...	1	...	...	...	...	...	1	...	2	...	...	...	1	...	3
Calhoun:																					
1 to 19 employees.....	119	32	...	...	3	9	5	3	23	4	...	...	...	8	1	8	12	5	...	3	3
20 to 99 employees.....	49	13	...	...	...	3	...	1	6	1	...	...	...	...	6	6	3	2	4	1	3
100 employees and over.....	29	4	...	...	...	...	...	4	1	...	...	...	...	1	2	7	8	...	2	...	...
Cass:																					
1 to 19 employees.....	42	8	...	...	...	6	...	...	2	...	...	...	...	3	2	4	10	1	2	...	4
20 to 99 employees.....	6	...	...	...	...	...	...	...	1	...	...	...	...	...	...	2	2	...	1	...	...
100 employees and over.....	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	2	...	...	1
Chavlevoix:																					
1 to 19 employees.....	24	4	...	...	1	10	...	...	5	...	...	...	...	2	...	...	...	1	1	...	...
20 to 99 employees.....	6	1	...	...	...	...	1	...	1	...	...	...	1	...	...	1	1	...	...	...	...
100 employees and over.....	2	...	...	...	...	...	...	...	...	...	...	...	1	...	1	...	...	...	...	...	...
Cheboygan:																					
1 to 19 employees.....	22	4	...	...	...	4	1	1	2	...	...	...	...	2	...	2	2	1	2	...	1
20 to 19 employees.....	5	...	...	...	...	...	...	...	...	1	...	...	1	...	...	...	2	1	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
Chippewa:																					
1 to 19 employees.....	48	9	...	...	...	35	...	...	1	...	...	...	...	2	...	...	1	...	...	...	...
20 to 99 employees.....	7	2	...	...	...	4	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	3	...	...	...	...	1	...	...	...	1	...	...	1	...	...	...	...	...	...	...	...
Clare:																					
1 to 19 employees.....	12	4	...	...	...	3	...	...	1	...	...	...	...	3	...	...	...	...	...	...	1
20 to 99 employees.....	3	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...

Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954—Continued  
(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Clinton:																					
1 to 19 employees.....	22	6	...	...	1	4	...	...	2	...	...	...	...	1	1	1	4	...	2	...	...
20 to 99 employees.....	4	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	2	...	...	...	...
100 employees and over.....	3	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...
Crawford:																					
1 to 19 employees.....	9	2	...	...	...	6	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Delta:																					
1 to 19 employees.....	110	18	...	...	...	80	1	...	3	...	...	...	...	6	...	1	...	...	1	...	...
20 to 99 employees.....	8	1	...	...	1	1	...	1	1	...	...	...	...	...	...	...	1	1	...	...	1
100 employees and over.....	6	...	...	...	...	3	...	1	...	...	...	...	...	...	...	...	1	1	...	...	...
Dickinson:																					
1 to 19 employees.....	73	10	...	...	...	51	5	...	2	1	...	...	...	1	...	...	1	...	...	...	2
20 to 99 employees.....	6	1	...	...	1	...	1	...	2	...	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	5	...	...	...	...	...	...	...	...	1	...	...	...	...	1	...	...	...	1	1	1
Eaton:																					
1 to 19 employees.....	47	10	...	...	...	7	...	...	6	1	...	...	...	5	1	6	6	1	1	...	3
20 to 99 employees.....	15	2	...	1	...	2	2	...	1	...	...	...	...	2	1	2	2	...	...	...	...
100 employees and over.....	4	...	...	1	...	...	...	...	...	...	...	...	...	2	...	...	1	...	...	...	...
Emmet:																					
1 to 19 employees.....	15	4	...	...	...	5	1	...	2	...	...	...	1	1	...	...	...	...	...	...	1
20 to 99 employees.....	10	1	...	...	...	3	...	1	1	...	...	...	...	...	1	1	...	...	...	1	1
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Genesee:																					
1 to 19 employees.....	210	27	...	...	3	9	7	...	31	10	...	...	1	17	3	25	54	3	7	2	11
20 to 99 employees.....	56	21	...	...	1	2	1	...	4	2	...	...	...	3	1	4	11	...	4	...	2
100 employees and over.....	20	3	...	1	...	...	...	1	2	1	...	...	...	...	1	2	1	...	7	...	1
Gladwin:																					
1 to 19 employees.....	5	3	...	...	...	...	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...
Gogebic:																					
1 to 19 employees.....	44	8	...	...	...	29	1	...	3	...	...	...	...	2	...	...	...	...	...	...	1
20 to 99 employees.....	5	1	...	...	...	3	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	5	...	...	...	...	3	...	...	...	...	...	...	1	...	...	...	...	...	1	...	...
Grand Traverse:																					
1 to 19 employees.....	35	8	...	...	1	5	1	...	4	...	...	...	...	3	...	1	5	2	...	...	5
20 to 99 employees.....	15	8	...	...	1	...	...	...	1	...	...	...	...	...	...	...	3	...	...	...	2
100 employees and over.....	6	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	2	...	...
Gratiot:																					
1 to 19 employees.....	30	12	...	...	...	1	...	...	4	...	...	...	...	3	...	1	6	...	2	...	1
20 to 99 employees.....	4	2	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...
100 employees and over.....	10	...	...	...	...	...	...	...	...	1	2	...	1	...	...	...	...	1	5	...	...
Hillsdale:																					
1 to 19 employees.....	37	8	...	...	1	7	...	...	6	...	...	...	...	3	...	2	4	...	1	...	5
20 to 99 employees.....	12	1	...	...	2	...	...	...	1	...	...	...	...	...	1	1	...	...	3	...	3
100 employees and over.....	7	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	4	...	...
Houghton:																					
1 to 19 employees.....	78	12	...	...	...	48	...	...	7	1	...	...	...	4	...	2	2	...	...	...	2
20 to 99 employees.....	15	3	...	...	...	7	...	...	2	1	...	...	...	...	2	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	...	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...
Huron:																					
1 to 19 employees.....	34	10	...	...	...	3	...	...	5	...	...	...	...	8	...	4	2	1	...	...	1
20 to 99 employees.....	13	5	...	...	...	...	...	...	...	...	...	...	...	1	...	4	2	...	1	...	...
100 employees and over.....	5	2	...	...	...	1	...	...	...	1	...	...	...	...	...	1	...	...	...	...	...
Ingham:																					
1 to 19 employees.....	140	25	...	...	2	3	4	...	28	7	1	...	...	6	4	24	23	3	1	2	7
20 to 99 employees.....	41	10	...	1	...	...	...	...	4	2	...	...	...	2	1	9	10	...	1	...	1
100 employees and over.....	28	3	...	...	...	...	...	...	3	...	...	...	...	...	7	2	5	...	6	1	1
Ionia:																					
1 to 19 employees.....	50	15	...	1	1	7	2	1	9	...	...	...	...	4	1	1	5	...	3	...	...
20 to 99 employees.....	12	2	...	...	1	1	...	...	1	...	...	...	...	...	4	2	...	...	...	...	1
100 employees and over.....	7	2	...	...	1	...	...	...	...	...	...	...	...	...	1	...	1	1	...	...	...
Iosco:																					
1 to 19 employees.....	19	3	...	...	1	11	...	...	1	...	...	...	...	...	...	1	1	...	...	...	1
20 to 99 employees.....	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	2	...	...
100 employees and over.....	3	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	1	...	...
Iron:																					
1 to 19 employees.....	46	9	...	...	...	32	...	...	2	...	...	...	...	2	...	...	1	...	...	...	...
20 to 99 employees.....	4	1	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Isabella:																					
1 to 19 employees.....	22	6	...	...	...	6	...	...	7	...	...	...	...	2	...	...	1	...	...	...	...
20 to 99 employees.....	6	3	...	...	...	...	...	...	...	1	...	...	...	...	...	2	...	...	...	...	...
100 employees and over.....	2	...	...	...	...	...	...	...	...	...	1	...	...	...	...	1	...	...	...	...	...
Jackson:																					
1 to 19 employees.....	180	17	...	...	4	6	1	2	18	6	1	...	...	9	5	32	52	1	8	2	16
20 to 99 employees.....	58	8	...	...	1	1	1	...	1	...	...	...	...	4	9	14	9	...	9	...	1
100 employees and over.....	27	...	...	...	1	...	...	...	1	...	1	1	...	1	...	2	6	2	10	1	1
Kalamazoo:																					
1 to 19 employees.....	154	26	1	1	2	8	2	2	23	8	1	1	...	6	5	19	29	1	7	2	10
20 to 99 employees.....	68	10	...	...	3	...	...	7	8	9	1	...	...	3	7	4	7	...	4	1	4
100 employees and over.....	45	2	...	...	1	...	1	17	2	1	...	1	...	...	...	4	5	2	5	...	4
Kalkaska:																					
1 to 19 employees.....	12	1	...	...	...	6	...	...	1	...	...	...	...	2	...	1	...	...	...	...	1
20 to 99 employees.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...



## MANUFACTURES—AREA STATISTICS

Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954—Continued  
(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Kent:																					
1 to 19 employees.....	503	98	1	3	19	37	35	5	76	17	...	3	1	18	15	68	60	6	10	2	29
20 to 99 employees.....	184	23	...	1	1	11	37	4	21	6	1	2	1	5	12	25	21	4	2	...	7
100 employees and over.....	89	9	...	3	...	3	19	6	4	1	...	1	2	2	4	13	10	2	7	1	2
Keweenaw:																					
1 to 19 employees.....	15	...	...	...	...	13	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	3	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Lake:																					
1 to 19 employees.....	6	1	...	...	...	4	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Lapeer:																					
1 to 19 employees.....	32	9	...	...	...	6	...	...	3	2	...	...	...	...	...	2	8	...	1	1	...
20 to 99 employees.....	6	...	...	...	1	...	...	...	...	...	...	...	...	...	1	2	2	...	...	...	...
100 employees and over.....	5	...	...	...	...	...	...	...	...	...	...	...	...	...	2	2	...	...	1	...	...
Leelanau:																					
1 to 19 employees.....	13	1	...	...	...	7	...	...	1	...	...	...	...	1	...	1	...	...	2	...	...
20 to 99 employees.....	4	2	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
100 employees and over.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Lenawee:																					
1 to 19 employees.....	107	19	...	1	...	11	3	1	13	4	...	2	...	7	3	16	21	...	2	1	3
20 to 99 employees.....	36	7	...	...	1	1	1	1	1	1	...	...	...	4	5	6	5	2	...	...	1
100 employees and over.....	20	...	...	1	...	...	1	1	...	...	...	1	...	1	...	3	9	1	2	...	...
Livingston:																					
1 to 19 employees.....	61	10	...	...	3	5	1	...	4	...	1	...	...	3	4	9	15	1	1	...	4
20 to 99 employees.....	13	...	...	...	...	1	...	...	1	...	...	...	...	2	2	1	6	...	...	...	...
100 employees and over.....	5	...	...	...	...	...	...	...	...	...	...	...	...	1	...	2	...	1	1	...	...
Luce:																					
1 to 19 employees.....	24	2	...	...	...	20	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...
20 to 99 employees.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	...	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...
Mackinac:																					
1 to 19 employees.....	21	4	...	...	...	14	1	...	1	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Macomb:																					
1 to 19 employees.....	544	16	...	2	5	19	9	4	20	9	1	1	1	14	10	115	263	5	21	3	26
20 to 99 employees.....	161	7	...	...	...	4	3	1	2	1	1	2	...	2	8	39	66	5	7	...	13
100 employees and over.....	41	...	...	...	...	...	1	...	...	...	...	...	...	1	2	12	15	2	6	...	2
Manistee:																					
1 to 19 employees.....	32	9	...	...	...	9	3	1	2	1	...	...	...	1	...	1	1	...	1	...	3
20 to 99 employees.....	7	1	...	...	1	...	2	...	1	1	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	9	...	...	...	1	...	...	2	...	2	...	...	1	...	1	...	1	...	1	...	...
Marquette:																					
1 to 19 employees.....	118	13	...	...	...	93	...	...	7	...	...	...	...	2	...	1	1	...	...	1	...
20 to 99 employees.....	15	4	...	...	3	6	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...
100 employees and over.....	6	...	...	...	1	2	...	...	...	2	...	...	...	...	...	...	1	...	...	...	...
Mason:																					
1 to 19 employees.....	26	10	...	...	1	3	1	...	2	...	...	...	...	1	...	1	4	...	1	...	2
20 to 99 employees.....	14	4	...	...	1	1	1	...	1	...	...	...	...	...	1	3	1	...	1	...	...
100 employees and over.....	4	...	...	...	...	...	1	...	...	1	...	...	...	...	...	...	1	...	...	1	...
Meecosta:																					
1 to 19 employees.....	21	8	...	...	...	2	1	...	3	...	...	...	...	2	...	...	5	...	...	...	...
20 to 99 employees.....	10	4	...	...	1	1	...	...	...	...	...	...	1	...	...	1	2	...	...	...	...
100 employees and over.....	5	...	...	...	1	...	2	...	...	...	...	...	1	...	...	...	1	...	...	...	...
Menominee:																					
1 to 19 employees.....	87	13	...	...	...	55	2	...	4	...	...	...	...	1	1	2	3	3	...	...	3
20 to 99 employees.....	15	4	...	...	1	4	2	1	1	...	...	...	...	1	...	...	...	1	...	...	...
100 employees and over.....	5	...	...	...	...	...	1	2	...	...	...	...	...	...	...	...	1	1	...	...	...
Midland:																					
1 to 19 employees.....	25	4	...	...	...	5	2	...	4	1	...	...	...	3	2	...	1	...	...	1	2
20 to 99 employees.....	8	1	...	...	...	...	...	...	3	...	1	...	...	...	...	...	...	...	...	...	3
100 employees and over.....	4	...	...	...	...	...	...	...	3	...	...	...	...	...	1	...	...	...	...	...	...
Missaukee:																					
1 to 19 employees.....	6	1	...	...	...	1	...	...	1	...	...	...	...	...	...	...	2	...	...	...	1
Monroe:																					
1 to 19 employees.....	59	9	...	2	1	3	1	1	6	1	...	...	...	8	2	7	11	1	...	1	5
20 to 99 employees.....	22	4	...	...	...	1	...	...	1	...	...	...	...	1	2	4	6	1	...	...	2
100 employees and over.....	19	...	...	...	...	...	1	11	...	...	...	...	...	...	2	2	1	...	2	...	...
Montcalm:																					
1 to 19 employees.....	38	11	...	...	...	10	3	...	6	...	...	...	...	1	...	3	3	...	...	...	1
20 to 99 employees.....	11	4	...	...	2	...	...	...	1	...	1	...	...	...	...	1	1	...	...	...	1
100 employees and over.....	5	...	...	...	...	...	...	...	...	...	...	...	1	...	...	1	3	...	...	...	...
Montmorency:																					
1 to 19 employees.....	13	1	...	...	...	8	...	...	2	...	...	...	...	...	...	...	2	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Muskegon:																					
1 to 19 employees.....	119	25	...	...	2	15	2	...	14	4	...	...	...	4	8	15	21	1	2	...	6
20 to 99 employees.....	39	9	...	...	...	...	...	1	1	...	2	...	1	...	4	4	13	...	3	...	1
100 employees and over.....	39	1	...	...	...	...	5	2	2	1	1	...	1	...	6	3	12	...	4	...	1
Newago:																					
1 to 19 employees.....	25	4	...	...	2	10	...	...	4	1	...	...	...	1	...	...	2	...	...	...	1
20 to 99 employees.....	6	1	...	...	...	1	1	...	...	1	...	...	...	...	1	...	1	...	...	...	...
100 employees and over.....	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Oakland:																					
1 to 19 employees.....	754	45	...	...	8	26	22	2	55	21	1	1	1	26	17	137	304	18	24	5	41
20 to 99 employees.....	234	5	...	...	2	5	4	2	2	6	...	3	1	7	10	56	90	9	16	3	13
100 employees and over.....	63	1	...	1	1	...	...	1	3	1	...	1	...	...	6	12	23	1	11	...	1

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(Counties and size classes in which no manufacturing establishments were reported are omitted)

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		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Oceana:																					
1 to 19 employees.....	24	9	...	...	1	8	...	...	3	...	...	...	...	...	1	2	...	...	...	...	...
20 to 99 employees.....	11	8	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Ogenaw:																					
1 to 19 employees.....	19	5	...	...	...	8	1	...	2	...	...	...	...	3	...	...	...	...	...	...	...
Ontonagon:																					
1 to 19 employees.....	40	2	...	...	...	33	...	2	1	...	...	...	...	1	...	1	...	...	...	...	...
20 to 99 employees.....	3	2	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Osceola:																					
1 to 19 employees.....	12	6	...	...	...	3	1	...	1	...	...	...	...	...	...	...	1	...	...	...	...
20 to 99 employees.....	7	2	...	...	...	3	...	...	...	...	1	...	1	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	...	...	...
Oscoda:																					
1 to 19 employees.....	6	1	...	...	...	3	...	...	...	...	...	...	...	1	...	1	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Otsego:																					
1 to 19 employees.....	18	4	...	...	...	7	...	...	2	1	...	...	...	2	...	...	2	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
Ottawa:																					
1 to 19 employees.....	136	35	...	...	2	21	10	2	9	3	...	1	1	6	3	16	17	2	4	2	2
20 to 99 employees.....	67	9	...	1	2	1	12	...	4	5	...	...	...	1	1	10	9	4	3	1	4
100 employees and over.....	24	2	...	...	1	...	3	...	...	...	...	...	2	...	...	7	3	1	3	...	2
Presque Isle:																					
1 to 19 employees.....	17	2	...	...	...	9	...	...	2	...	...	...	...	2	...	...	2	...	...	...	...
20 to 99 employees.....	2	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
RosCommon:																					
1 to 19 employees.....	17	1	...	...	...	7	2	...	2	1	...	...	...	1	...	1	1	...	...	...	1
20 to 99 employees.....	2	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
100 employees and over.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Saginaw:																					
1 to 19 employees.....	144	34	...	...	4	12	5	1	21	5	...	1	...	13	4	11	22	...	5	1	5
20 to 99 employees.....	55	9	...	...	2	3	1	3	1	5	...	...	1	2	2	4	15	...	5	...	2
100 employees and over.....	29	7	...	...	...	...	1	...	1	...	...	...	...	...	3	2	10	...	4	...	1
St. Clair:																					
1 to 19 employees.....	116	25	...	...	3	7	7	...	12	2	...	1	...	8	2	11	24	...	5	1	8
20 to 99 employees.....	28	6	...	...	3	...	...	...	...	...	1	...	...	...	2	5	9	...	1	...	1
100 employees and over.....	20	...	...	1	...	...	...	2	1	2	...	1	...	2	3	...	1	...	6	...	1
St. Joseph:																					
1 to 19 employees.....	72	14	...	...	1	3	2	2	8	1	...	...	...	4	4	10	15	1	3	1	3
20 to 99 employees.....	27	1	...	1	1	...	1	6	3	...	...	1	...	...	3	2	6	...	1	...	1
100 employees and over.....	22	2	...	1	...	...	4	5	1	...	...	...	...	...	...	2	2	1	1	1	2
Sanilac:																					
1 to 19 employees.....	40	10	...	...	...	4	...	...	4	...	...	...	...	6	...	8	5	...	1	...	2
20 to 99 employees.....	6	2	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1	...	2	...	...
100 employees and over.....	6	2	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	2	...	1
Schoolcraft:																					
1 to 19 employees.....	23	2	...	...	...	17	...	...	2	...	...	...	...	...	...	1	...	...	...	...	1
20 to 99 employees.....	6	...	...	...	...	3	...	2	...	...	...	...	...	...	...	...	...	...	1	...	...
Shiawassee:																					
1 to 19 employees.....	55	14	...	...	...	4	1	1	7	...	...	...	...	5	2	12	5	1	1	...	2
20 to 99 employees.....	13	1	...	...	1	...	2	...	1	...	...	...	...	1	1	1	2	1	1	...	1
100 employees and over.....	7	...	...	...	...	...	2	...	...	...	...	...	...	1	...	...	1	3	...	...	...
Tuscola:																					
1 to 19 employees.....	34	6	...	...	1	3	...	...	10	1	...	...	...	6	...	...	5	...	1	...	1
20 to 99 employees.....	8	3	...	...	...	1	...	...	...	...	...	...	...	...	1	1	1	...	...	...	1
100 employees and over.....	2	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...
Van Buren:																					
1 to 19 employees.....	65	18	...	...	1	8	...	...	10	2	...	...	...	2	2	6	11	...	...	1	4
20 to 99 employees.....	18	11	...	...	1	1	...	...	...	...	...	...	...	...	...	1	1	1	...	...	2
100 employees and over.....	10	2	...	...	...	1	...	...	...	...	...	...	...	...	3	...	2	1	...	...	1
Washtenaw:																					
1 to 19 employees.....	130	11	...	...	...	4	2	...	29	4	...	1	...	11	3	18	25	4	6	3	9
20 to 99 employees.....	38	9	...	...	...	1	...	1	3	...	...	...	...	2	2	5	6	2	3	4	...
100 employees and over.....	26	1	...	...	...	...	...	1	2	...	...	...	...	...	2	4	5	2	4	4	1
Wayne:																					
1 to 19 employees.....	2,856	254	4	10	113	75	86	16	384	129	17	12	10	96	88	484	773	53	67	34	151
20 to 99 employees.....	1,043	104	...	3	34	19	26	14	103	40	12	5	2	30	64	174	282	28	47	6	50
100 employees and over.....	463	53	2	4	5	4	2	13	19	20	6	3	1	16	49	70	93	8	80	5	10
Wexford:																					
1 to 19 employees.....	23	5	...	1	...	4	...	...	3	...	...	...	...	2	2	...	5	1	...	...	...
20 to 99 employees.....	9	1	...	...	3	1	...	...	1	...	...	...	...	1	...	...	...	1	1	...	...
100 employees and over.....	6	...	...	...	...	1	1	...	...	...	...	1	...	...	1	...	...	...	2	...	...

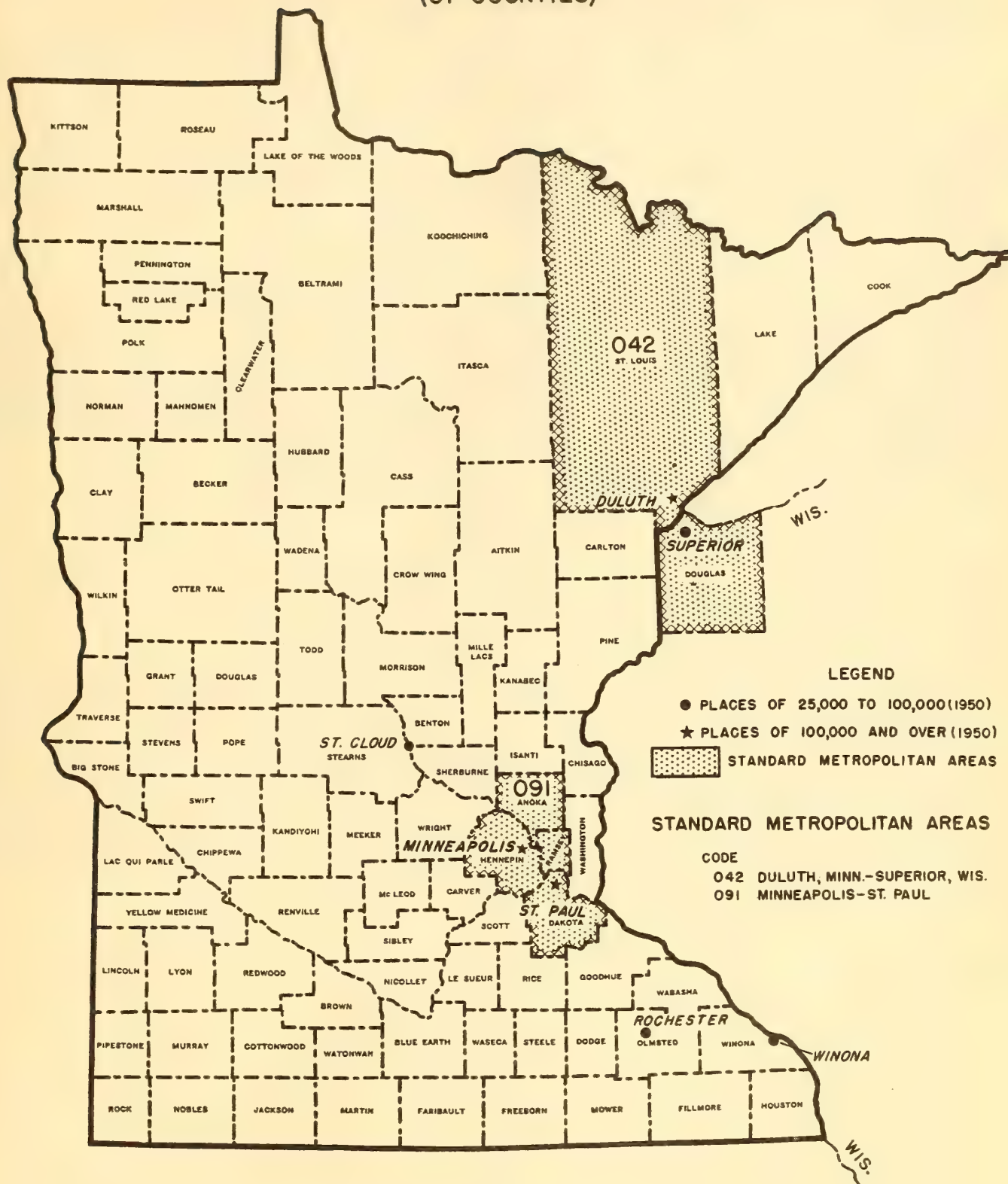
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# MINNESOTA (87 COUNTIES)





## MANUFACTURES—AREA STATISTICS

Table 1.—MANUFACTURING EMPLOYMENT AT OPERATING ESTABLISHMENTS AND CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARIES FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS

(This table includes data for all manufacturing employees including those located in central administrative offices and auxiliaries. Tables 2-7 in this report include data for operating establishments only. For explanation of column captions see Introduction)

State, standard metropolitan areas, and year <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	(Number)	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
Minnesota:						
1954.....	208,506	865,254	203,022	834,888	5,484	30,366
1953 <sup>2</sup> .....	214,494	868,804	207,648	834,484	6,846	34,320
1952 <sup>2</sup> .....	211,899	804,582	208,199	786,442	<sup>3</sup> 3,700	<sup>3</sup> 18,140
1951 <sup>2</sup> .....	200,601	729,351	196,901	711,211	3,700	18,140
1950 <sup>2</sup> .....	186,123	612,054	180,864	593,914	5,259	18,812
1949 <sup>2</sup> .....	179,984	568,293	177,581	558,893	2,403	9,400
1954						
Standard metropolitan areas:						
Duluth-Superior <sup>4</sup> .....	12,740	49,739	12,724	49,617	16	122
Minneapolis-St. Paul <sup>5</sup> .....	139,234	610,276	134,208	582,387	5,026	27,889

<sup>1</sup>Employment data for administrative offices and auxiliaries on a State basis are not available for the years prior to 1949. Similar data for standard metropolitan areas are available only for 1954.<sup>2</sup>The employment figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period. The employment figures for administrative and auxiliary units were compiled chiefly from Bureau of Old-Age and Survivors Insurance records and are not strictly comparable with the figures for these units that were collected by the Bureau of the Census for the year 1954.<sup>3</sup>The 1951 data are shown for 1952 since auxiliary and administrative unit data were not collected in 1952.<sup>4</sup>The Duluth-Superior Standard Metropolitan Area consists of St. Louis County, Minnesota and Douglas County, Wisconsin.<sup>5</sup>The Minneapolis-St. Paul Standard Metropolitan Area consists of Anoka, Dakota, Hennepin, and Ramsey Counties, Minnesota.

Table 2.—GENERAL STATISTICS FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Year	Establish- ments, number	All employees		Production workers		Value added by manufacture (\$1,000)	
		Number	Payroll (\$1,000)	Number	Wages (\$1,000)		
	MINNESOTA						
1954 <sup>1</sup> .....	5,027	{	203,022	834,888	151,132	560,492	1,594,505
1953 <sup>2</sup> .....			207,648	834,484	161,252	603,780	1,554,405
1952 <sup>2</sup> .....			208,199	786,442	158,468	542,643	1,445,476
1951 <sup>2</sup> .....			196,901	711,211	151,568	499,307	1,301,396
1950 <sup>2</sup> .....			180,864	593,914	142,122	414,814	1,200,204
1949 <sup>2</sup> .....	4,563	{	177,581	558,893	139,476	374,919	1,081,848
1947.....			181,514	508,352	145,020	358,605	1,021,274
1939.....			102,179	143,397	78,023	95,273	306,840
1937.....			107,349	143,316	89,925	107,393	312,898
1935.....			92,992	110,711	76,241	77,974	245,507
1933.....	3,312	(NA)	(NA)	69,633	64,024	201,540	
1931.....	3,864	(NA)	(NA)	80,753	92,929	261,747	
1929.....	4,315	124,231	180,142	103,414	132,418	404,995	
1927.....	3,886	(NA)	(NA)	98,833	123,619	340,336	
1925.....	3,888	(NA)	(NA)	100,614	123,767	331,132	
1923.....	3,900	(NA)	(NA)	103,964	125,531	315,452	
1921.....	4,089	(NA)	(NA)	85,804	107,250	264,973	
1919.....	5,633	140,414	169,843	113,781	124,811	327,921	
1914.....	5,824	109,950	80,191	92,378	58,140	155,800	
1909.....	5,561	99,030	62,923	84,767	47,471	127,797	
1904.....	4,756	78,777	44,876	69,636	35,843	97,304	
1899.....	4,096	71,182	35,093	64,557	29,029	73,394	
	MINNEAPOLIS—ST. PAUL STANDARD METROPOLITAN AREA						
1954.....	2,246	134,208	582,387	96,346	374,557	1,081,364	
1947.....	2,115	118,741	353,403	93,909	238,955	713,462	
1939.....	1,626	65,359	97,870	48,710	62,577	203,011	
1929.....	1,939	71,504	106,045	58,342	73,833	261,080	
1919.....	2,389	(NA)	(NA)	67,138	73,866	212,398	

NA Not available.

<sup>1</sup>The 1954 figures include data for establishments engaged in the processing and distribution of fluid milk, Industry Group 202, Dairy Products. These establishments were not included in the figures for the Annual Survey years 1949-1953 or earlier Census years. In addition, the 1954 Census and Annual Survey years include data for Logging Camps and Contractors, Industry 2411, which were not included within the scope of the 1947 Census. See footnotes to Table 4 for comparable 1954 and 1947 totals. There were also a number of changes in the definition of manufacturing industries during earlier Census years that affect the comparability of the historical series. Among the more important of these were: figures for 1935 and later years exclude data for "Railroad repair shops" and "Manufactured gas" which were included in 1899-1933 figures; the minimum size of establishment included for 1954 and 1947 was one employee, for 1939-1921 manufacturing establishments reporting value of shipments of \$5,000 or more were within scope whereas for 1919 and earlier years the cutoff was \$500. (This change in procedure has not appreciably affected the comparability of the historical data except for the figures on number of establishments.)

<sup>2</sup>The employment and payroll figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures Volume for this period.

## MANUFACTURES—AREA STATISTICS

Table 3.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
Minnesota, total.....	1,982,483	5,027	203,022	834,888	151,132	305,345	560,492	1,594,505	82,188	( <sup>1</sup> )	( <sup>1</sup> )
STANDARD METROPOLITAN AREAS											
Minneapolis-St. Paul.....	1,116,509	2,245	134,208	582,387	96,346	193,430	374,557	1,081,364	47,303	120,435	713,462
Duluth-Superior.....	252,777	436	12,724	49,617	10,176	19,449	36,288	78,814	6,101	12,931	55,526
Portion in Minnesota.....	206,062	382	11,189	43,598	8,975	17,014	31,911	66,459	5,390	11,543	46,228
Portion in Wisconsin.....	46,715	54	1,535	6,019	1,201	2,435	4,377	12,355	711	1,388	9,298
COUNTIES											
Aitkin.....	14,327	26	220	485	194	343	420	858	75	193	656
Anoka.....	35,579	44	5,060	24,080	4,508	9,746	20,994	35,198	1,115	2,148	14,022
Becker.....	24,836	39	378	1,096	288	562	668	1,673	264	239	941
Beltrami.....	24,962	53	442	1,180	376	751	911	1,893	174	700	2,227
Benton.....	15,911	32	681	2,412	557	1,207	1,844	5,545	214	455	2,518
Big Stone.....	9,607	6	89	348	58	195	197	587	50	98	344
Blue Earth.....	38,327	69	2,046	7,584	1,574	3,431	5,139	17,133	883	1,613	8,442
Brown.....	25,895	46	1,105	3,443	869	1,966	2,566	7,221	327	1,381	7,408
Carlton.....	24,584	33	3,751	14,979	3,233	6,548	11,673	31,569	2,376	3,117	16,719
Carver.....	18,155	26	517	1,838	428	978	1,364	5,006	253	460	2,728
Cass.....	19,468	56	307	593	283	474	549	1,013	83	341	1,250
Chippewa.....	16,739	14	236	597	144	285	305	976	41	233	674
Chisago.....	12,669	27	220	671	185	393	556	1,425	93	305	1,452
Clay.....	30,363	27	662	2,369	450	1,058	1,552	5,320	266	171	742
Clearwater.....	10,204	23	168	441	144	264	357	931	76	81	256
Cook.....	2,900	22	210	547	196	332	489	808	72	135	431
Cottonwood.....	15,763	21	248	625	224	435	556	2,723	64	78	303
Crow Wing.....	30,875	45	727	2,459	575	1,157	1,684	3,246	594	733	3,737
Dakota.....	49,019	51	7,954	35,666	6,163	13,557	27,054	37,592	2,365	7,826	32,310
Dodge.....	12,624	13	148	342	125	240	277	787	266	88	299
Douglas.....	21,304	29	236	657	184	410	499	1,304	161	377	1,216
Faribault.....	23,879	32	718	1,986	581	1,235	1,365	4,566	400	833	3,034
Fillmore.....	24,465	28	151	389	112	231	278	548	92	171	783
Freeborn.....	34,517	58	3,127	11,504	2,317	4,806	8,196	17,588	905	2,840	17,026
Goodhue.....	32,118	57	2,206	7,639	1,808	3,696	5,536	13,530	1,078	2,410	16,459
Grant.....	9,542	5	29	77	26	53	68	107	(D)	46	229
Hennepin.....	676,579	1,511	71,267	300,033	50,780	100,721	186,854	536,293	19,721	66,365	385,211
Houston.....	14,435	24	166	395	145	286	325	978	171	71	200
Hubbard.....	11,085	33	271	513	246	411	450	1,113	109	190	740
Isanti.....	12,123	19	141	358	117	239	295	465	83	271	891
Itasca.....	33,321	105	1,007	3,464	861	1,721	2,650	6,956	1,269	511	3,248
Jackson.....	16,306	15	74	173	48	101	115	298	16	69	200
Kanabec.....	9,192	13	250	917	186	436	592	1,767	253	146	765
Kandiyohi.....	28,644	27	598	1,462	487	997	1,083	3,681	246	268	1,110
Kittson.....	9,649	11	43	101	32	68	75	187	30	27	180
Koochiching.....	16,910	82	2,353	(D)	2,015	(D)	(D)	(D)	(D)	1,771	(D)
Lac qui Parle.....	14,545	11	80	223	64	141	166	506	33	103	334
Lake.....	7,781	29	438	1,369	409	696	1,180	1,822	208	159	396
Lake of the Woods.....	4,955	18	104	275	92	164	204	610	30	30	(D)
Le Sueur.....	19,088	28	878	3,005	696	1,570	2,169	6,805	335	1,314	7,063
Lincoln.....	10,150	8	50	142	41	83	103	710	10	65	195
Lyon.....	22,253	26	397	993	274	603	651	1,924	105	553	2,296
McLeod.....	22,198	44	1,186	3,887	970	2,076	2,899	15,383	857	551	3,231
Mahnomen.....	7,059	5	23	68	17	38	46	79	(D)	30	(D)
Marshall.....	16,125	13	58	127	43	93	93	328	30	60	215
Martin.....	25,655	35	1,062	3,778	774	1,698	2,340	10,806	730	983	4,438
Meeker.....	18,966	24	319	975	244	555	697	2,294	349	465	2,368
Mille Lacs.....	15,165	30	301	744	256	525	612	1,818	85	165	663
Morrison.....	25,832	36	696	1,951	615	1,211	1,586	3,669	384	738	3,116
Mower.....	42,277	28	5,558	(D)	4,140	(D)	(D)	(D)	(D)	5,135	(D)
Murray.....	14,801	7	39	99	29	64	73	189	31	58	163
Nicollet.....	20,921	18	188	537	135	283	353	758	131	247	859
Nobles.....	22,435	18	507	1,484	433	1,019	1,230	2,285	172	287	1,560
Norman.....	12,909	13	59	172	47	99	132	279	33	87	234
Olmsted.....	48,228	43	1,572	5,655	1,121	2,180	3,591	11,748	706	697	3,313
Otter Tail.....	51,320	53	680	2,169	487	1,097	1,425	4,270	270	709	2,376
Pennington.....	12,965	14	317	892	224	451	539	1,890	140	262	864
Pine.....	18,223	27	189	580	148	321	408	1,042	276	265	1,249
Pipestone.....	14,003	19	306	966	192	382	474	1,791	73	211	910
Polk.....	35,900	33	460	1,662	343	798	1,196	2,462	212	616	4,649

See footnotes at end of table.



## MINNESOTA

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Table 3.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
COUNTIES—Continued											
Pope.....	12,862	14	132	378	93	212	242	498	63	98	438
Ramsey.....	355,332	640	49,922	222,593	34,895	69,407	139,657	472,239	24,102	44,096	281,930
Red Lake.....	6,806	9	54	130	40	103	110	239	32	49	280
Redwood.....	22,127	18	112	312	76	166	199	639	179	190	762
Renville.....	23,954	29	223	538	184	409	437	1,016	92	163	941
Rice.....	36,235	38	1,108	3,782	843	1,755	2,516	6,616	593	1,495	7,476
Rock.....	11,278	15	224	712	172	343	444	1,346	137	135	574
Roseau.....	14,505	20	156	395	141	289	354	634	69	107	297
St. Louis.....	206,062	382	11,189	43,598	8,975	17,014	31,911	66,459	5,390	11,543	46,228
Scott.....	16,486	27	994	4,035	794	1,538	2,790	7,698	413	711	4,613
Sherburne.....	10,661	8	254	854	230	481	753	1,595	(D)	106	(D)
Sibley.....	15,816	24	187	578	144	342	440	1,441	116	269	1,282
Stearns.....	70,681	108	2,729	9,181	2,197	4,772	6,979	19,258	993	1,785	8,698
Steele.....	21,155	44	1,649	6,245	1,276	2,636	4,316	11,990	426	1,106	6,887
Stevens.....	11,106	12	92	210	75	153	165	452	94	76	427
Swift.....	15,837	9	123	417	100	247	317	370	42	216	971
Todd.....	25,420	22	211	692	172	351	536	1,093	109	312	1,371
Traverse.....	8,053	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	28	(D)
Wabasha.....	16,878	24	500	1,980	411	951	1,521	3,370	214	477	2,429
Wadena.....	12,806	29	223	617	188	390	448	1,268	166	201	664
Waseca.....	14,957	25	1,206	3,482	1,077	2,360	2,826	8,790	416	696	2,961
Washington.....	34,544	44	3,580	16,513	2,825	5,515	11,810	35,394	1,815	2,831	11,177
Watsonwan.....	13,881	16	570	1,702	485	1,030	1,289	2,682	90	370	1,251
Wilkin.....	10,567	7	60	148	42	83	93	203	14	65	259
Winona.....	39,841	96	3,297	11,552	2,636	5,376	8,017	20,813	1,719	3,239	16,683
Wright.....	27,716	47	745	2,179	580	1,304	1,587	4,389	395	473	2,610
Yellow Medicine.....	16,279	16	158	419	122	270	282	1,239	113	126	265
CITIES WITH 10,000 INHAB- ITANTS OR MORE											
Albert Lea.....	13,545	37	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1,718	(D)
Austin.....	23,100	13	5,491	(D)	4,091	(D)	(D)	(D)	(D)	4,928	(D)
Bemidji.....	10,001	27	339	985	280	580	730	1,596	105	(NA)	(NA)
Brainerd.....	12,637	19	539	1,937	414	851	1,278	2,806	212	656	3,481
Crystal.....	...	6	119	332	90	166	257	628	15	(NA)	(NA)
Duluth.....	104,511	164	9,005	38,072	7,022	13,754	27,338	55,203	4,763	10,424	42,298
Faribault.....	16,028	22	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1,296	5,491
Fergus Falls.....	12,917	25	477	1,605	310	674	965	3,080	144	439	1,497
Hibbing.....	16,276	13	220	744	163	283	451	998	169	130	566
Mankato.....	18,809	46	1,900	7,213	1,455	3,204	4,858	16,458	683	1,429	7,512
Minneapolis.....	521,718	1,327	65,732	277,512	46,519	92,297	171,621	494,314	18,102	61,857	360,563
Moorhead.....	14,870	18	432	1,504	261	593	813	2,323	213	(NA)	(NA)
Owatonna.....	10,191	28	1,450	5,565	1,129	2,313	3,798	10,622	315	(NA)	(NA)
Red Wing.....	10,645	24	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Richfield.....	17,502	16	211	844	161	329	565	1,418	53	(NA)	(NA)
Robbinsdale.....	11,289	3	75	290	33	71	137	336	25	(NA)	(NA)
Rochester.....	29,885	36	1,515	5,474	1,074	2,094	3,436	11,460	674	496	2,123
St. Cloud.....	28,410	70	2,089	6,739	1,667	3,352	4,974	14,983	338	1,301	6,652
St. Louis Park.....	22,644	51	1,248	5,657	929	1,934	3,412	11,988	544	(NA)	(NA)
St. Paul.....	311,349	584	41,936	186,593	28,191	55,359	110,538	425,576	20,708	40,652	272,838
South St. Paul.....	15,909	20	7,127	32,663	5,481	12,085	24,838	31,871	1,954	6,727	(D)
Virginia.....	12,486	19	554	1,556	511	905	1,373	3,551	79	265	979
Winona.....	25,031	74	3,117	11,186	2,476	5,118	7,711	19,974	1,628	3,066	16,147

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>The 1947 data are not strictly comparable with the figures shown for 1954 due to differences in coverage of loggers and fluid milk distributors.  
See discussion in Introduction and footnotes to Table 4.

## MANUFACTURES—AREA STATISTICS

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
	All industries, total <sup>1</sup> ...	5,027	1,316	203,022	834,888	151,132	305,345	560,492	1,594,505	( <sup>2</sup> )	82,188	( <sup>3</sup> )	( <sup>3</sup> )
20	Food and kindred products..	1,183	351	49,470	198,587	35,717	75,880	134,263	398,774	( <sup>2</sup> )	28,903	( <sup>3</sup> )	( <sup>3</sup> )
201	Meat products.....	74	44	18,346	80,672	14,287	29,045	62,301	136,957	( <sup>2</sup> )	5,148	17,516	84,232
2011	Meat packing, plants.....	29	14	15,416	72,502	11,808	24,153	56,018	122,233	( <sup>2</sup> )	4,065	13,646	69,144
2013	Prepared meats.....	19	11	976	3,582	764	1,473	2,554	6,206	( <sup>2</sup> )	395	1,589	8,545
2015	Poultry dressing plants.....	26	19	1,953	4,587	1,715	3,418	3,728	8,518	49,558	687	2,281	6,545
202	Dairy products.....	638	115	10,316	36,936	6,518	14,909	20,364	72,072	( <sup>2</sup> )	7,828	( <sup>3</sup> )	( <sup>3</sup> )
2021	Creamery butter.....	309	30	3,218	9,271	2,456	5,459	6,693	19,091	144,092	3,157	( <sup>3</sup> )	( <sup>3</sup> )
2022	Natural cheese.....	30	11	792	2,822	624	1,632	2,092	7,372	41,294	542	( <sup>3</sup> )	( <sup>3</sup> )
2023	Concentrated milk.....	27	20	795	2,838	734	1,841	2,548	7,313	35,184	917	( <sup>3</sup> )	( <sup>3</sup> )
2024	Ice cream and ices.....	35	13	734	2,888	440	872	1,308	5,514	13,129	359	( <sup>3</sup> )	( <sup>3</sup> )
2026	Fluid milk.....	49	6	505	1,678	274	615	775	2,883	8,555	307	( <sup>3</sup> )	( <sup>3</sup> )
2027	Fluid milk and other products.	185	35	4,254	17,414	1,974	4,459	6,925	29,850	101,225	2,544	( <sup>3</sup> )	( <sup>3</sup> )
203	Canned and frozen food.....	46	27	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2033	Canned fruits and vegetables..	28	23	2,328	6,841	1,924	4,123	4,964	17,722	43,097	1,054	2,999	14,411
204	Grain mill products.....	121	48	5,128	21,743	3,934	9,045	15,226	51,390	( <sup>2</sup> )	3,137	5,721	60,936
2041	Flour and meal.....	31	21	2,236	10,128	1,819	4,111	7,903	20,920	200,416	684	3,696	40,021
2042	Prepared animal meal.....	82	23	2,599	10,385	1,925	4,559	6,698	24,006	96,472	2,393	1,747	16,112
2043	Cereal breakfast food.....	4	3	264	1,130	164	327	546	6,335	12,025	49	(D)	(D)
205	Bakery products.....	118	45	4,474	17,042	2,555	5,220	8,266	29,802	( <sup>2</sup> )	1,002	4,842	23,399
2051	Bread and related products....	111	42	3,977	15,367	2,239	4,632	7,387	26,255	48,365	901	3,888	17,629
2052	Biscuit and crackers.....	7	3	497	1,674	316	588	878	3,547	5,868	101	954	5,770
207	Candy and related products..	21	11	1,035	3,094	847	1,718	2,142	5,863	16,233	131	1,173	6,011
2071	Confectionery products.....	21	11	1,035	3,094	847	1,718	2,142	5,863	16,233	131	1,173	6,011
208	Beverages.....	111	40	4,707	22,055	3,116	6,418	13,892	57,393	( <sup>2</sup> )	9,121	4,642	42,176
2082	Beer and ale.....	14	14	2,894	14,501	2,091	4,461	10,219	39,826	65,548	(D)	2,781	27,110
209	Miscellaneous foods.....	51	18	1,782	5,763	1,397	2,804	3,723	15,181	( <sup>2</sup> )	800	(D)	(D)
2098	Macaroni and spaghetti.....	5	3	251	950	148	275	429	2,487	5,771	28	(D)	(D)
2099	Food preparations, n.e.c.....	37	14	1,407	4,262	1,155	2,308	2,865	11,720	40,923	760	1,490	8,438
21	Tobacco Manufacturers.....	1	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	22	(D)
22	Textile mill products.....	28	18	2,944	9,603	2,164	4,046	5,855	14,822	( <sup>2</sup> )	759	4,678	15,456
221	Woolen and worsted manu- facture.....	4	2	212	671	169	321	448	1,345	( <sup>2</sup> )	193	697	2,270
225	Knitting mills.....	13	10	2,222	7,236	1,561	2,868	4,336	7,212	( <sup>2</sup> )	263	3,126	9,715
2253	Knit outerwear mills.....	9	6	432	1,194	351	696	864	1,973	5,110	(D)	(D)	(D)
229	Miscellaneous textile goods.	9	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2294	Processed textile waste.....	4	3	176	514	156	319	370	838	2,549	(D)	(D)	(D)
23	Apparel and related products.....	186	99	8,971	24,858	7,715	13,681	18,382	38,962	( <sup>2</sup> )	460	9,036	33,684
231	Men's and boys' suits.....	13	9	612	2,097	550	1,036	1,584	2,693	6,043	27	815	3,149
2311	Men's & boys' clothing, n.e.c.	13	9	612	2,097	550	1,036	1,584	2,693	6,043	(D)	815	3,149
232	Men's and boys' furnishings.	36	27	2,774	7,581	2,454	4,502	5,832	13,080	( <sup>2</sup> )	108	2,516	8,692
2329	Men's and boys' clothing,	14	13	1,479	4,300	1,254	2,363	3,019	5,605	11,833	74	1,446	5,276
233	Women's and misses' outerwear.....	37	24	1,770	4,987	1,555	2,573	3,721	6,648	( <sup>2</sup> )	47	1,665	5,493
2334	Dresses, dozen price.....	11	5	441	1,048	402	657	798	1,312	2,640	11	443	1,373
236	Children's outerwear.....	13	8	1,057	2,786	934	1,802	2,217	3,900	( <sup>2</sup> )	22	739	3,248
238	Miscellaneous apparel.....	10	4	427	1,081	336	536	720	1,631	( <sup>2</sup> )	32	829	3,117
2386	Leather & sheep-lined clothing	3	3	313	850	239	366	539	1,631	2,385	27	436	1,884
239	Fabricated textile, n.e.c....	58	19	1,368	3,994	1,096	2,051	2,687	7,132	( <sup>2</sup> )	214	1,297	4,458
2392	House furnishing, n.e.c.....	9	6	224	512	194	362	334	896	1,978	27	(D)	(D)
2393	Textile bags.....	7	5	581	1,833	454	842	1,269	3,259	13,779	140	717	2,556
2394	Canvas products.....	14	2	163	583	117	218	308	867	1,565	14	138	510
2399	Textile products, n.e.c.....	17	5	298	842	244	471	608	1,770	3,542	16	252	690
24	Lumber and wood products..	800	81	8,585	27,974	7,498	13,532	21,837	46,818	( <sup>2</sup> )	2,502	( <sup>3</sup> )	( <sup>3</sup> )
2411	Logging camps & contractors.	379	18	2,191	4,540	2,046	3,040	3,986	7,107	12,081	985	( <sup>3</sup> )	( <sup>3</sup> )
242	Lumber and basic products...	251	9	1,190	2,555	1,096	1,934	2,249	4,299	( <sup>2</sup> )	365	1,500	3,909
243	Millwork and related products.....	100	30	3,511	15,366	2,840	5,558	11,122	25,844	( <sup>2</sup> )	917	2,895	12,230
2431	Millwork plants.....	90	22	2,941	13,136	2,345	4,545	9,461	20,729	45,069	716	2,548	10,589

See footnotes at end of table.



Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establish- ments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
244	Wooden containers.....	30	11	782	2,461	713	1,404	1,987	3,689	( <sup>2</sup> )	82	845	3,069
2444	Wooden boxes.....	23	10	691	2,148	630	1,246	1,717	3,157	6,948	69	(D)	(D)
249	Miscellaneous wood products.	40	13	908	3,051	801	1,595	2,491	5,878	( <sup>2</sup> )	151	1,478	6,499
2491	Wood preserving.....	9	8	464	1,842	399	820	1,472	3,328	9,389	87	588	3,633
25	Furniture and fixtures....	124	32	2,672	10,727	2,183	4,099	7,306	16,992	( <sup>2</sup> )	584	2,791	11,797
251	Household furniture.....	66	20	1,735	7,148	1,441	2,731	5,057	10,247	( <sup>2</sup> )	292	2,067	8,427
2512	Uphlst'd. household furniture..	21	7	540	2,316	455	881	1,705	3,498	6,160	21	619	2,497
2515	Mattresses and bedsprings.....	14	5	590	2,777	449	834	1,688	3,959	9,091	82	661	3,559
253	Public and professional furniture.....	6	1	130	415	109	230	350	742	2,001	45	(D)	(D)
2531	Public-building furniture.....	6	1	130	415	109	230	350	742	2,001	45	(D)	(D)
2541	Partitions and fixtures.....	29	6	508	2,127	392	698	1,204	4,027	6,082	112	401	1,956
259	Furniture and fixtures, n.e.c.....	7	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2591	Restaurant furniture.....	6	2	110	393	92	174	295	804	1,684	76	(D)	(D)
26	Pulp, paper and products..	81	53	15,428	71,226	10,750	23,157	44,782	173,960	( <sup>2</sup> )	11,189	12,003	103,693
261	Pulp, paper and board.....	20	20	6,358	30,207	5,371	12,613	24,009	68,492	( <sup>2</sup> )	5,923	5,487	44,428
2612	Paper and paper board mills...	7	7	3,010	14,554	2,413	5,595	11,066	31,045	76,671	3,054	(NA)	(NA)
2651	Envelopes.....	10	7	525	2,241	424	868	1,408	3,607	6,610	103	(D)	(D)
2661	Paper bags.....	5	1	114	380	97	221	251	558	1,665	(D)	(D)	(D)
267	Paperboard containers.....	24	15	1,950	8,218	1,631	3,403	5,903	14,985	( <sup>2</sup> )	2,075	2,036	12,156
27	Printing and publishing...	804	117	19,450	85,808	11,656	21,678	46,626	138,625	( <sup>2</sup> )	4,541	18,143	105,343
2711	Newspapers.....	343	34	6,027	23,280	3,343	5,696	12,469	44,600	63,052	1,773	5,419	29,426
2721	Periodicals.....	53	9	635	2,735	207	314	597	5,290	8,334	130	600	4,526
273	Books.....	33	5	1,586	6,385	1,128	2,300	3,722	11,482	( <sup>2</sup> )	165	1,326	(D)
2731	Books; publishing and printing	23	5	1,526	6,135	1,080	2,200	3,542	11,050	13,831	113	(D)	(D)
2741	Miscellaneous publishing....	22	5	445	1,541	185	295	659	2,316	3,918	207	114	431
2751	Commercial printing.....	228	38	8,251	39,759	4,827	9,324	20,397	57,847	80,889	1,578	4,888	22,282
2761	Lithographing.....	58	13	1,611	7,918	1,297	2,478	5,817	11,074	17,289	459	(D)	(D)
279	Printing trade services....	38	10	600	3,319	449	893	2,458	4,586	( <sup>2</sup> )	159	654	4,120
2791	Typesetting.....	13	5	232	1,193	176	358	931	1,647	1,919	100	185	1,177
2793	Photoengraving.....	13	3	178	1,124	125	242	750	1,532	1,808	6	329	2,094
2794	Electrotyping and stereotyping	5	2	141	827	111	214	656	1,195	1,384	48	88	(D)
28	Chemical products.....	182	50	5,288	21,999	3,571	7,650	13,786	102,484	( <sup>2</sup> )	4,047	4,952	68,205
282	Organic chemicals.....	5	2	142	555	107	217	360	1,414	( <sup>2</sup> )	140	(D)	(D)
283	Drugs and medicines.....	26	4	240	724	165	285	366	1,973	( <sup>2</sup> )	31	(D)	(D)
284	Soap and related products...	34	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2842	Cleaning and polishing products.....	26	1	153	542	99	152	236	1,348	2,506	61	125	953
285	Paints and allied products..	21	9	731	3,127	391	789	1,450	6,145	( <sup>2</sup> )	122	(D)	(D)
287	Fertilizers.....	9	5	248	1,001	191	452	717	4,187	16,166	444	(D)	(D)
2872	Fertilizers, mixing only.....	9	5	248	1,001	191	452	717	4,187	16,166	444	(D)	(D)
288	Vegetable and animal oils...	32	12	1,439	6,036	1,136	2,899	5,016	18,439	( <sup>2</sup> )	1,205	1,250	34,627
2882	Linseed oil mills.....	5	5	835	3,729	650	1,695	3,282	11,652	100,491	809	872	31,521
2883	Soybean oil mills.....	6	4	302	1,247	260	609	1,006	4,361	53,706	202	(D)	(D)
2886	Grease and tallow.....	21	3	301	1,059	225	594	728	2,426	3,711	193	343	2,738
289	Chemical products, n.e.c....	51	13	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2893	Toilet preparations.....	19	7	1,141	4,251	684	1,291	2,325	50,658	65,403	342	1,639	19,426
2899	Chemical products, n.e.c.....	19	2	637	3,254	433	824	1,933	12,069	19,138	(D)	121	625
29	Petroleum and coal products.....	25	14	1,512	6,705	1,161	2,440	4,930	16,195	( <sup>2</sup> )	1,134	1,469	10,704
299	Petroleum and coal products, n.e.c.....	8	2	121	504	62	126	248	982	( <sup>2</sup> )	32	278	1,700
30	Rubber products.....	23	6	653	2,512	561	1,124	1,880	5,546	( <sup>2</sup> )	383	646	(D)
31	Leather and leather goods.	32	14	1,599	5,307	1,313	2,445	3,703	8,070	( <sup>2</sup> )	210	1,636	8,000
314	Footwear, except rubber.....	12	6	928	2,977	742	1,347	1,861	4,588	8,578	98	972	4,115
3141	Footwear, except rubber.....	12	6	928	2,977	742	1,347	1,861	4,588	8,578	98	972	4,115
32	Stone, clay and glass products.....	276	57	5,119	18,754	4,171	8,838	14,031	31,029	( <sup>2</sup> )	2,097	3,612	15,706
325	Structural clay products....	8	4	295	1,189	244	571	846	1,350	( <sup>2</sup> )	31	331	1,188
327	Concrete and plaster products.....	192	31	2,201	7,634	1,722	3,561	5,257	13,715	( <sup>2</sup> )	1,461	1,768	8,124
3271	Concrete products.....	188	28	1,981	6,831	1,541	3,184	4,674	12,169	22,755	1,368	1,512	6,512
3281	Cut-stone and stone products	40	17	1,729	6,484	1,455	3,200	5,188	9,603	14,597	336	421	1,995
329	Nonmetallic mineral products, n.e.c.....	20	2	160	599	129	266	454	1,274	( <sup>2</sup> )	155	123	741

See footnotes at end of table.



## MANUFACTURES—AREA STATISTICS

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954										1947	
		Establish- ments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
33	Primary metal industries...	79	42	5,339	23,810	4,672	9,065	19,205	30,099	( <sup>2</sup> )	3,011	6,971	29,393
332	Iron and steel foundries.....	34	22	1,494	5,673	1,338	2,572	4,687	9,142	( <sup>2</sup> )	188	2,809	12,937
3321	Gray-iron foundries.....	30	18	986	3,598	888	1,686	3,064	6,263	9,423	112	2,241	10,357
3361	Nonferrous rolling & drawing.	30	13	909	3,882	795	1,502	3,051	6,642	11,474	217	(D)	(D)
339	Primary metal industries.....	9	1	117	587	94	201	387	864	2,126	144	31	(D)
3399	Primary metal industries, nec..	9	1	117	587	94	201	387	864	2,126	144	31	(D)
34	Fabricated metal products..	307	92	9,707	40,907	7,735	15,482	28,290	72,259	( <sup>2</sup> )	4,628	11,174	60,816
342	Fabricated metal products....	37	11	1,152	4,208	901	1,792	2,813	7,044	( <sup>2</sup> )	221	1,243	5,526
3423	Hand tools, n.e.c.....	17	8	767	3,014	593	1,197	2,069	4,815	7,658	102	1,069	4,929
3429	Hardware, n.e.c.....	16	3	348	1,090	276	534	664	1,985	4,114	104	139	477
343	Heating and plumbing equip- ment.....	12	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3439	Heating & cooking equip., n.e.c	10	5	306	1,378	234	463	874	2,565	5,807	75	(D)	(D)
344	Structural metal products....	104	35	3,337	15,086	2,494	4,970	9,538	26,141	( <sup>2</sup> )	1,609	4,697	25,254
3441	Structural and ornamental work.	37	18	1,868	8,766	1,359	2,774	5,333	15,433	30,601	545	2,036	9,914
3442	Metal doors, sash, and trim....	13	3	241	1,046	182	354	658	1,692	2,930	82	(D)	(D)
3443	Boiler shop products.....	15	5	440	2,057	363	717	1,495	2,772	5,520	78	1,568	9,565
3444	Sheet-metal work.....	39	9	786	3,216	588	1,123	2,051	6,243	11,695	903	(D)	(D)
346	Metal stamping and coating...	79	26	2,263	9,296	1,858	3,769	6,835	15,458	22,916	( <sup>2</sup> )	2,159	10,604
3463	Metal stampings.....	40	18	1,676	7,101	1,348	2,725	5,106	11,737	18,091	410	1,727	8,768
3468	Plating and polishing.....	30	4	434	1,646	382	771	1,289	2,872	3,722	138	304	1,356
348	Fabricated wire products.....	20	4	310	1,194	272	542	925	1,760	3,036	109	357	2,184
3489	Wirework, n.e.c.....	20	4	310	1,194	272	542	925	1,760	3,036	109	357	2,184
349	Metal products, n.e.c.....	49	8	1,508	6,097	1,270	2,494	4,522	8,962	( <sup>2</sup> )	559	543	2,879
3495	Screw machine products.....	24	4	705	2,818	605	1,214	2,154	3,865	5,889	281	(D)	(D)
3499	Fabricated metal prod., n.e.c..	21	3	584	2,356	496	955	1,763	3,492	7,949	(D)	(D)	(D)
35	Machinery, exc. electrical.....	454	146	23,492	99,930	17,468	34,972	65,718	178,174	( <sup>2</sup> )	6,929	24,068	128,933
352	Tractors and farm machinery..	73	32	5,404	21,586	4,184	7,768	15,299	41,228	( <sup>2</sup> )	1,400	6,951	42,801
353	Construction and mining ma- chinery.....	20	10	2,959	13,741	2,173	4,402	8,740	21,627	( <sup>2</sup> )	453	3,231	19,306
354	Metalworking machinery.....	68	15	1,750	7,911	1,302	2,758	5,201	11,757	( <sup>2</sup> )	531	1,546	7,786
3541	Machine tools.....	6	4	625	2,778	475	905	1,745	3,662	7,340	84	426	2,248
3544	Special dies and tools.....	51	6	462	2,169	387	880	1,720	3,494	4,509	251	(NA)	(NA)
355	Special-industry machinery, n.e.c.....	54	14	1,309	6,075	926	1,959	3,722	9,849	( <sup>2</sup> )	237	1,866	10,572
3551	Food-products machinery.....	23	7	734	3,402	503	1,087	2,026	5,448	9,621	170	793	5,336
3553	Woodworking machinery.....	7	2	148	712	119	258	484	1,027	1,622	21	317	1,743
3554	Paper-industries machinery....	5	2	210	1,004	158	316	670	2,152	2,516	19	(D)	(D)
3555	Printing-trades machinery.....	7	1	122	489	68	136	230	596	978	14	(D)	(D)
356	General industrial machinery.	51	22	2,660	11,666	1,874	3,809	6,946	19,161	( <sup>2</sup> )	974	1,835	8,177
3562	Elevator and escalators.....	6	3	126	589	81	161	345	1,192	1,626	14	102	436
3563	Conveyors.....	9	4	569	2,503	393	774	1,569	4,744	7,867	276	494	1,921
3565	Industrial trucks and tractors.	5	3	597	2,523	440	890	1,611	3,959	7,438	333	(D)	(D)
3569	General industrial mach.,nec...	9	2	263	1,015	180	367	614	1,334	2,293	20	203	985
357	Office and store machines....	9	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3579	Office & store machine, n.e.c..	6	1	104	362	88	168	206	541	899	15	(D)	(D)
358	Service and household ma- chines.....	53	28	5,808	23,675	4,295	8,517	15,438	46,811	( <sup>2</sup> )	1,933	6,435	30,262
3585	Refrigeration machinery.....	27	16	4,516	17,810	3,482	6,879	12,493	36,921	( <sup>2</sup> )	1,695	5,266	23,447
3589	Service & household mach., nec.	17	6	577	2,849	311	607	1,148	4,780	( <sup>2</sup> )	103	375	2,386
359	Miscellaneous machine parts..	122	19	1,495	6,615	1,249	2,603	4,959	10,974	( <sup>2</sup> )	988	(D)	(D)
3594	Industrial patterns and molds..	16		115	541	98	184	399	829	999	87	(D)	(D)
3599	Machine shops.....	100	17	1,217	5,393	1,030	2,170	4,110	8,757	12,807	649	695	2,748
36	Electrical machinery.....	87	36	6,680	27,893	5,061	10,007	18,326	48,718	( <sup>2</sup> )	1,273	9,105	37,228
361	Electrical industrial appa- ratus.....	36	14	3,073	13,692	2,277	4,632	8,818	23,959	( <sup>2</sup> )	319	2,966	15,603
3614	Motors and generators.....	7	5	2,011	9,762	1,441	2,901	6,205	16,751	26,722	201	(D)	(D)
3616	Electrical control apparatus...	14	4	592	1,866	518	1,103	1,476	3,500	5,469	26	(D)	(D)
366	Communication equipment.....	30	14	2,852	11,250	2,255	4,331	7,847	20,132	( <sup>2</sup> )	649	3,900	11,904
3661	Radios and related products....	23	11	1,704	6,963	1,336	2,687	4,752	14,226	( <sup>2</sup> )	463	(D)	(D)
369	Electrical products, n.e.c....	14	7	658	2,639	448	872	1,474	4,303	( <sup>2</sup> )	237	(D)	(D)

See footnotes at end of table.

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establish- ments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
37	Transportation equipment...	74	27	6,852	31,165	5,466	11,446	22,997	63,452	( <sup>2</sup> )	1,657	3,403	21,056
371	Motor vehicles and equipment.	35	12	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3713	Truck and bus bodies.....	10	4	249	1,159	188	404	712	1,718	3,989	36	(D)	(D)
373	Ships and boats.....	19	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3732	Boat building, and repairing...	18	3	337	980	297	607	787	1,965	3,464	175	245	682
38	Instruments and related products.....	51	14	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	7,085	(D)
384	Medical equipment and supplies.....	22	3	187	681	138	253	396	1,146	( <sup>2</sup> )	16	227	1,147
3842	Surgical appliances & supplies.	13	2	120	400	92	170	268	564	907	5	157	519
3861	Photographic equipment.....	5	2	443	1,885	339	686	1,165	2,565	4,336	97	(D)	(D)
39	Miscellaneous manufactures <sup>4</sup>	230	67	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5,826	28,221
391	Jewelry (precious metal).....	15	2	542	2,586	379	836	1,738	5,546	7,482	(D)	(D)	(D)
3911	Jewelry (precious metal).....	15	2	542	2,586	379	836	1,738	5,546	7,482	(D)	533	(D)
394	Toys and sporting goods.....	53	15	1,157	3,194	1,032	1,905	2,250	6,005	( <sup>2</sup> )	249	887	2,979
3941	Games and toys, n.e.c.....	12	4	537	1,404	478	898	945	2,650	5,273	(D)	(D)	(D)
3949	Sporting and athletic goods....	37	9	528	1,578	470	855	1,132	3,004	5,551	126	434	1,664
3971	Plastic products, n.e.c.....	26	8	643	2,527	547	1,097	1,868	4,040	7,073	1,348	(D)	(D)
398 399	} Miscellaneous manufactures <sup>4</sup> ..	119	40	14,922	66,910	12,450	25,969	53,480	94,023	( <sup>2</sup> )	3,569	3,676	18,791
3981	Brooms and brushes.....	11	3	311	1,179	237	432	671	1,725	3,344	40	343	2,060
3999	Miscellaneous products, n.e.c..	15	4	205	581	159	219	300	849	1,664	56	1,332	5,893
1900	Ordnance and accessories.....	11	11	12,659	58,945	10,637	22,625	48,268	82,604	( <sup>2</sup> )	3,035	(D)	(D)

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industries (4-digit) and industry groups (3-digit) are not shown. Industries and industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "all industries" line.

<sup>2</sup>The total value of shipments figures for industry groups and a few individual industries have not been published due to the extensive and unmeasurable duplication arising from shipments from one establishment to another in the same industry classification. (See Introduction.)

<sup>3</sup>Comparable data are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude establishments in S.I.C. Industry 2411, Logging Camps and Contractors, which are included in the scope of the 1954 Census; the 1947 Census also excludes plants processing and distributing fluid milk which in 1954 are classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	All industries except subgroups 202 and 2411, total.....	190,515	1,515,326	175,371	992,642
20	Food and kindred products except subgroup 202, Dairy products.....	39,154	326,702	40,339	250,417
24	Lumber and wood products except Industry 2411, Logging camps and contractors.....	6,394	39,711	6,718	25,707

<sup>4</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)



## MANUFACTURES—AREA STATISTICS

Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947  
(For explanation of column captions see Introduction)

Code	Industry group	Establish- ments, number	1954						1947		
			All employees		Production workers			Value added by manufacture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours ((1,000)	Wages (\$1,000)				
MINNEAPOLIS-ST. PAUL STANDARD METROPOLITAN AREAS (Consists of Anoka, Dakota, Hennepin, and Ramsey Counties, Minnesota)											
	All industries, total....	2,245	134,208	582,307	96,346	193,430	374,557	1,081,364	47,303	<sup>2</sup> 120,435	<sup>2</sup> 713,462
20	Food and kindred products...	264	22,559	99,667	15,335	32,785	63,113	178,371	15,708	( <sup>3</sup> )	( <sup>3</sup> )
201	Meat products.....	25	7,977	36,351	6,144	13,487	27,422	37,508	2,385	7,359	30,134
202	Dairy products.....	49	2,637	12,147	950	1,991	3,704	20,332	1,281	( <sup>3</sup> )	( <sup>3</sup> )
204	Grain mill products.....	43	3,275	14,315	2,581	5,909	10,416	38,442	2,363	3,236	39,221
205	Bakery products.....	47	3,153	12,567	1,759	3,551	6,075	21,945	663	3,568	18,057
208	Beverages.....	27	3,358	17,091	2,302	4,832	11,287	44,670	8,495	3,134	31,657
209	Miscellaneous foods.....	40	964	3,563	637	1,093	1,748	8,526	391	1,398	8,303
22	Textile mill products.....	14	2,243	7,539	1,581	2,903	4,384	7,767	251	3,076	9,734
23	Apparel and related products	153	6,797	20,093	5,696	10,279	14,306	28,381	403	7,293	27,860
231	Men's and boys' suits and coats	13	612	2,097	550	1,036	1,584	2,693	(D)	756	3,273
232	Men's and boys' furnishings....	25	1,484	4,611	1,232	2,342	3,183	6,204	83	1,593	5,933
233	Women's and misses' outerwear..	35	1,767	4,981	1,551	2,567	3,716	6,641	47	(D)	(D)
239	Fabricated textiles, n.e.c....	50	1,255	3,672	1,006	1,866	2,513	6,592	190	(D)	(D)
24	Lumber and wood products....	87	2,288	8,731	1,901	3,752	6,650	12,760	284	3,172	13,244
243	Millwork and related products..	50	1,460	5,683	1,172	2,279	4,138	7,026	158	1,247	5,023
244	Wooden containers.....	13	278	980	251	495	842	1,490	26	416	1,539
249	Miscellaneous wood products....	21	544	2,063	472	973	1,665	4,239	100	1,122	5,285
25	Furniture and fixtures.....	94	2,335	9,697	1,901	3,533	6,507	15,480	489	2,515	11,049
251	Household furniture.....	50	1,530	6,480	1,266	2,382	4,549	9,322	241	1,838	7,849
254	Partitions and fixtures.....	20	426	1,901	328	570	1,024	3,639	89	380	1,887
26	Pulp, paper, and products...	51	9,178	42,750	5,430	10,939	22,070	110,645	4,404	8,682	68,343
265	Envelopes.....	10	525	2,241	424	868	1,408	3,607	103	(D)	(D)
267	Paperboard containers.....	18	1,867	7,976	1,562	3,279	5,741	14,620	754	1,961	11,890
269	Pulp, paper, and products n.e.c.	14	539	1,752	446	894	1,158	2,814	186	(D)	(D)
27	Printing and publishing.....	372	15,659	72,954	9,264	17,049	38,938	116,582	3,241	14,852	91,067
271	Newspapers.....	40	3,327	14,088	1,688	2,505	7,096	28,372	735	(D)	(D)
272	Periodicals.....	42	534	2,469	162	223	508	4,673	121	580	4,409
273	Books.....	26	1,521	6,170	1,100	2,254	3,672	11,273	150	(D)	(D)
274	Miscellaneous publishing.....	11	369	1,328	185	295	659	1,931	194	100	386
275	Commercial printing.....	153	7,553	37,317	4,287	8,265	18,647	54,070	1,387	4,212	19,588
276	Lithographing.....	46	1,513	7,579	1,217	2,317	5,544	10,514	430	(D)	(D)
277	Greeting cards.....	4	154	498	106	184	216	784	7	(D)	(D)
278	Bookbinding and related industries.....	18	114	319	92	155	246	567	56	(D)	(D)
279	Printing trade service.....	32	571	3,184	425	848	2,347	4,394	157	637	4,040
28	Chemicals and products.....	133	3,709	15,291	2,370	4,987	9,107	79,854	1,953	3,996	59,087
283	Drugs and medicines.....	19	176	547	112	187	245	1,300	15	246	2,212
284	Soap and related products.....	32	210	628	148	187	294	1,433	58	(D)	(D)
288	Vegetable and animal oils.....	10	866	3,884	661	1,719	3,300	11,312	815	877	27,531
289	Chemical products, n.e.c.....	46	1,479	5,915	897	1,706	3,154	54,482	615	1,764	21,170
29	Petroleum and coal products.	19	816	3,571	605	1,300	2,532	7,411	340	989	8,841
30	Rubber products.....	19	(D)	(D)	(D)	(D)	(D)	(D)	(D)	486	(D)
31	Leather and leather goods...	21	428	1,238	364	702	919	1,883	37	555	1,979
314	Footwear, except rubber.....	6	198	536	169	322	420	934	28	307	1,050
32	Stone, clay, and glass products.....	79	1,251	5,653	969	2,024	3,875	8,897	817	815	4,674
327	Concrete and plaster products..	45	607	2,785	429	913	1,693	4,671	574	410	2,367
328	Cut-stone and stone products...	6	248	1,125	219	431	887	1,234	53	(D)	(D)
329	Nonmetallic mineral products, n.e.c.....	16	144	540	115	239	405	1,161	147	(D)	(D)
33	Primary metal industries....	54	2,026	(D)	1,765	(D)	(D)	(D)	(D)	2,422	12,361
332	Iron and steel foundries.....	19	1,041	4,109	928	1,777	3,311	6,997	161	1,717	8,405
336	Nonferrous rolling and drawing.	24	773	3,323	669	1,287	2,597	5,691	130	(D)	(D)
34	Fabricated metal products...	244	7,771	33,896	6,149	12,265	23,239	58,740	4,001	8,842	47,127
344	Structural metal products.....	76	2,927	13,629	2,171	4,346	8,524	23,784	1,361	4,516	24,287
346	Metal stamping and coating....	68	2,086	8,746	1,704	3,455	6,410	14,669	561	2,129	10,431
349	Metal products, n.e.c.....	43	1,461	5,938	1,231	2,410	4,417	8,687	547	(D)	(D)
35	Machinery, except electrical.	319	18,212	79,424	13,427	26,628	51,841	139,631	4,581	20,039	109,162
352	Tractors and farm machinery....	34	4,520	18,632	3,464	6,289	13,190	34,831	1,075	6,613	41,539
353	Construction and mining ma- chinery.....	10	2,272	10,633	1,697	3,443	6,900	16,278	349	(D)	(D)
354	Metalworking machinery.....	47	775	3,794	564	1,241	2,509	5,899	326	972	4,748
356	General industrial.....	40	2,374	10,729	1,665	3,389	6,370	17,163	671	1,448	6,177
358	Service and household machines.	42	4,123	17,337	2,995	5,861	10,943	32,905	912	(D)	(D)
359	Miscellaneous machinery parts..	95	1,021	4,697	860	1,744	3,501	7,784	661	658	3,071

See footnotes at end of table.



## MINNESOTA

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Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947—Con.  
(For explanation of column captions see Introduction)

Code	Industry group	Establishments, number	1954							1947	
			All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
36	Electrical machinery.....	68	4,521	20,479	3,299	6,540	13,012	36,875	1,012	7,820	34,344
361	Electrical industrial apparatus.....	28	2,526	11,933	1,791	3,528	7,385	20,923	280	2,643	14,733
37	Transportation equipment....	45	6,279	29,208	4,990	10,459	21,607	60,005	1,430	2,560	(D)
38	Instruments & related prod..	42	11,603	(D)	7,528	(D)	(D)	(D)	(D)	7,072	(D)
39	Miscellaneous manufactures <sup>4</sup> .	167	15,789	(D)	13,159	(D)	(D)	(D)	(D)	4,377	21,488
394	Toys and sporting goods.....	32	858	2,407	766	1,392	1,639	4,662	198	841	2,865

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industry groups (3-digit) are not shown. Industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "All industries" line.

<sup>2</sup>The 1954 and 1947 "All industries" totals are not strictly comparable because of differences in scope between the two years in Major Group 20 (see footnote 3).

<sup>3</sup>Comparable data for Major Group 20 are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude plants processing and distributing fluid milk which in 1954 were classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Valued added by manufacture (\$1,000)	All employees, number	Valued added by manufacture (\$1,000)
20	Food and kindred products except subgroup 202, Dairy products.....	19,922	158,039	20,151	134,748

<sup>4</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)

## MANUFACTURES—AREA STATISTICS

Table 6.—GENERAL STATISTICS FOR PRINCIPAL INDUSTRIAL COUNTIES, BY MAJOR INDUSTRY GROUP: 1954 AND 1947

(Principal industrial counties include all counties with 20,000 or more manufacturing employees. For explanation of column captions see Introduction)

Code	Major industry group	1954							1947		
		Establish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendit- ures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
		HENNEPIN COUNTY									
	All industries, total <sup>1</sup> .....	1,511	71,267	300,033	50,780	100,721	186,854	536,293	19,721	<sup>2</sup> 66,365	<sup>2</sup> 385,211
20	Food and kindred products.....	175	10,418	43,901	6,581	13,796	24,261	91,849	5,111	9,174	75,420
22	Textile mill products.....	6	1,933	6,720	1,338	2,447	3,808	6,478	216	2,833	(D)
23	Apparel and related products..	112	4,462	13,570	3,731	6,844	9,668	19,406	283	5,142	19,628
24	Lumber and wood products.....	55	1,516	5,847	1,286	2,564	4,509	8,718	194	2,219	9,132
25	Furniture and fixtures.....	67	1,443	6,023	1,185	2,274	4,265	9,335	265	1,367	6,209
27	Printing and publishing.....	252	6,222	27,976	3,900	6,758	16,527	47,087	1,885	6,393	35,253
31	Leather and leather goods.....	13	318	887	271	520	683	1,364	17	479	1,654
32	Stone, clay, & glass products.	45	601	2,661	458	935	1,734	4,484	484	300	1,854
33	Primary metal industries.....	34	1,223	5,098	1,077	2,122	4,038	8,449	304	1,246	6,316
34	Fabricated metal products.....	169	5,246	22,300	4,171	8,270	15,598	36,746	1,529	5,843	30,096
35	Machinery, except electrical..	234	11,830	52,329	8,640	17,149	33,803	89,947	2,950	13,929	79,686
36	Electrical machinery.....	49	3,305	14,927	2,339	4,601	9,137	25,693	442	4,209	20,679
37	Transportation equipment.....	26	1,697	7,729	1,357	2,983	5,573	9,543	621	(D)	(D)
		RAMSEY COUNTY									
	All industries, total <sup>1</sup> .....	640	49,922	222,593	34,895	69,407	139,657	472,239	24,102	<sup>2</sup> 44,096	<sup>2</sup> 281,919
20	Food and kindred products.....	73	4,955	22,813	3,215	6,715	13,666	52,991	8,589	4,888	(D)
22	Textile mill products.....	8	310	819	242	456	575	1,289	35	243	(D)
23	Apparel and related products..	41	2,335	6,523	1,965	3,435	4,638	8,975	120	2,151	8,232
24	Lumber and wood products.....	26	605	2,258	478	938	1,687	3,038	69	(D)	(D)
25	Furniture and fixtures.....	23	837	3,529	666	1,158	2,117	5,934	204	1,017	4,496
26	Pulp, paper and products.....	20	7,312	35,224	3,912	7,655	16,905	98,859	3,935	7,011	61,098
27	Printing and publishing.....	110	9,366	44,735	5,315	10,196	22,242	69,087	1,328	8,386	55,510
28	Chemicals and products.....	53	1,602	6,168	987	1,860	3,390	54,630	693	1,911	(D)
29	Petroleum and coal products...	9	399	1,636	285	573	1,079	3,154	91	(D)	(D)
31	Leather and leather goods.....	8	110	351	93	182	235	518	20	76	325
32	Stone, clay, & glass products.	23	547	2,581	430	919	1,820	3,996	290	369	2,138
33	Primary metal industries.....	14	555	2,248	474	882	1,735	4,339	88	1,000	(D)
34	Fabricated metal products.....	68	2,486	11,387	1,931	3,928	7,448	21,329	1,937	2,999	17,031
35	Machinery, except electrical..	73	5,948	25,736	4,385	8,719	16,885	46,749	1,533	5,638	26,992
37	Transportation equipment.....	15	4,198	19,674	3,353	6,897	14,636	47,843	756	2,179	(D)
39	Miscellaneous manufactures <sup>3</sup> ...	46	7,068	31,190	6,138	12,842	26,610	37,756	3,811	1,157	5,503

D Withheld to avoid disclosing data for individual companies.

<sup>1</sup>In order to avoid disclosing data for individual companies, the statistics for some industry groups are not shown. Industry groups reporting less than 100 employees are also omitted. They are included, however, in the "All industries" line.<sup>2</sup>The 1954 and 1947 "All industries" totals are not strictly comparable because of differences in coverage of loggers and fluid milk distributors. See discussion in Introduction and footnote to Table 4 for comparable figures at the State level.<sup>3</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)





Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954—Continued  
(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establish- ments, • total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Douglas:																					
1 to 19 employees.....	27	15	...	...	...	...	1	...	4	...	...	...	...	2	...	1	2	...	1	...	1
20 to 99 employees.....	2	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Faribault:																					
1 to 19 employees.....	27	13	...	...	...	2	...	...	6	1	...	...	...	5	...	...	...	...	...	...	...
20 to 99 employees.....	3	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Fillmore:																					
1 to 19 employees.....	27	9	...	...	...	5	...	...	7	2	...	...	...	2	...	...	1	...	...	...	...
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Freeborn:																					
1 to 19 employees.....	37	21	...	...	...	2	...	...	4	1	...	...	...	1	...	...	6	...	...	1	1
20 to 99 employees.....	17	5	...	...	1	3	...	...	2	1	...	...	...	1	...	1	3	...	...	...	...
100 employees and over.....	4	1	...	...	...	1	...	...	...	...	...	...	...	...	1	...	1	...	...	...	...
Goodhue:																					
1 to 19 employees.....	33	15	...	...	2	2	...	...	7	1	...	...	...	3	...	2	1	...	...	...	...
20 to 99 employees.....	21	8	...	1	...	2	...	...	1	1	...	1	3	2	...	...	1	1	...	...	...
100 employees and over.....	3	...	...	...	...	...	...	...	...	...	...	...	2	1	...	...	...	...	...	...	...
Grant:																					
1 to 19 employees.....	5	3	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
Hennepin:																					
1 to 19 employees.....	1,004	83	...	2	59	36	48	13	204	53	4	10	9	34	16	122	162	33	14	23	79
20 to 99 employees.....	379	59	...	1	42	15	15	12	40	15	3	3	3	11	15	37	50	8	10	5	35
100 employees and over.....	128	33	...	3	11	4	4	4	8	4	2	2	1	...	3	10	22	8	2	3	4
Houston:																					
1 to 19 employees.....	23	10	...	...	...	7	...	...	3	...	...	...	...	2	...	...	1	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
Hubbard:																					
1 to 19 employees.....	31	5	...	...	...	24	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Isanti:																					
1 to 19 employees.....	16	8	...	2	...	1	...	...	3	...	...	...	...	...	...	...	1	...	...	...	1
20 to 99 employees.....	3	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
Itasca:																					
1 to 19 employees.....	95	9	...	...	1	70	...	...	7	...	...	...	...	4	1	...	...	...	3	...	...
20 to 99 employees.....	9	1	...	...	...	6	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees.....	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
Jackson:																					
1 to 19 employees.....	15	7	...	...	...	1	1	...	4	...	...	...	...	2	...	...	...	...	...	...	...
Kanabec:																					
1 to 19 employees.....	10	3	...	...	...	3	...	...	2	...	...	...	...	...	1	...	1	...	...	...	...
20 to 99 employees.....	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
Kandiyohi:																					
1 to 19 employees.....	21	6	...	...	...	2	...	...	6	...	...	...	...	3	...	2	2	...	...	...	...
20 to 99 employees.....	4	2	...	...	...	...	...	...	1	...	...	...	...	...	...	1	...	...	...	...	...
100 employees and over.....	2	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Kittson:																					
1 to 19 employees.....	11	4	...	...	...	...	...	...	4	...	...	...	...	1	...	1	1	...	...	...	...
Koochiching:																					
1 to 19 employees.....	75	5	...	...	...	68	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	4	...	...	...	...	3	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	3	...	...	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...
Lac qui Parle:																					
1 to 19 employees.....	11	5	...	...	...	...	...	...	4	1	...	...	...	...	...	...	...	...	...	...	1
Lake:																					
1 to 19 employees.....	25	1	...	...	...	22	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	3	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Lake of the Woods:																					
1 to 19 employees.....	17	2	...	...	...	14	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Le Sueur:																					
1 to 19 employees.....	20	7	...	...	...	3	1	...	5	1	...	...	...	3	...	...	...	...	...	...	...
20 to 99 employees.....	5	1	...	...	1	...	...	...	...	...	...	...	...	1	1	...	1	...	...	...	...
100 employees and over.....	3	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Lincoln:																					
1 to 19 employees.....	8	3	...	...	...	...	...	...	3	...	...	...	...	1	...	...	1	...	...	...	...
Lyon:																					
1 to 19 employees.....	21	10	...	...	...	...	...	...	7	...	...	...	...	2	...	1	1	...	...	...	...
20 to 99 employees.....	4	3	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
McLeod:																					
1 to 19 employees.....	33	12	...	...	...	3	2	...	6	...	...	...	...	3	...	1	5	...	1	...	...
20 to 99 employees.....	9	7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	...	...
100 employees and over.....	2	1	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
Mahnomen:																					
1 to 19 employees.....	5	2	...	...	...	1	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...
Marshall:																					
1 to 19 employees.....	13	8	...	...	...	...	...	...	3	...	...	...	...	...	1	...	...	1	...	...	...

Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954—Continued  
(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establish- ments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Martin:																					
1 to 19 employees.....	29	15	...	...	...	2	...	...	7	2	...	...	...	3	...	...	...	...	...	...	...
20 to 99 employees.....	3	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...
100 employees and over.....	3	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
Meeker:																					
1 to 19 employees.....	21	10	...	...	...	1	...	...	3	2	...	...	...	1	...	2	2	...	...	...	...
20 to 99 employees.....	2	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Mille Lacs:																					
1 to 19 employees.....	25	10	...	...	...	5	...	...	4	...	...	...	...	...	...	1	1	1	1	...	2
20 to 99 employees.....	5	2	...	...	1	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Morrison:																					
1 to 19 employees.....	29	18	...	...	...	4	...	...	4	...	...	...	...	2	...	...	1	...	...	...	...
20 to 99 employees.....	5	1	...	...	...	...	...	2	1	...	...	...	...	...	...	...	...	...	1	...	...
100 employees and over.....	2	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
Mower:																					
1 to 19 employees.....	24	11	...	...	...	2	...	1	5	...	...	...	...	4	...	...	...	...	1	...	...
20 to 99 employees.....	3	2	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Murray:																					
1 to 19 employees.....	7	4	...	...	...	...	...	...	2	...	...	...	...	1	...	...	...	...	...	...	...
Nicollet:																					
1 to 19 employees.....	17	8	...	1	...	1	1	...	3	...	...	...	...	1	...	1	...	...	...	...	1
20 to 99 employees.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Nobles:																					
1 to 19 employees.....	16	5	...	...	...	1	...	...	3	...	...	1	...	3	...	...	3	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Norman:																					
1 to 19 employees.....	13	10	...	...	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...
Olmsted:																					
1 to 19 employees.....	31	9	...	...	...	2	1	1	7	...	...	...	...	3	...	*1	2	1	...	1	3
20 to 99 employees.....	6	2	...	...	...	...	...	...	2	...	...	...	...	1	...	...	...	...	1	...	...
100 employees and over.....	6	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...
Otter Tail:																					
1 to 19 employees.....	42	17	...	...	1	4	2	1	7	1	...	...	...	5	...	...	1	...	2	...	1
20 to 99 employees.....	11	7	...	...	...	...	1	...	3	...	...	...	...	...	...	...	...	...	...	...	...
Pennington:																					
1 to 19 employees.....	10	5	...	...	...	...	1	...	1	...	...	...	...	1	...	...	2	...	...	...	...
20 to 99 employees.....	3	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Pine:																					
1 to 19 employees.....	24	7	...	...	...	8	...	...	4	...	...	...	...	2	...	...	1	...	...	...	2
20 to 99 employees.....	3	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Pipestone:																					
1 to 19 employees.....	17	8	...	...	...	...	...	...	4	3	1	...	...	...	...	...	...	...	...	...	1
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Polk:																					
1 to 19 employees.....	29	16	...	...	...	...	...	...	7	...	...	...	...	4	...	...	1	1	...	...	...
20 to 99 employees.....	3	2	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Pope:																					
1 to 19 employees.....	12	9	...	...	...	...	1	...	2	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	2	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Ramsey:																					
1 to 19 employees.....	381	32	...	3	13	17	15	6	84	39	4	4	6	14	5	43	43	8	8	6	31
20 to 99 employees.....	187	31	...	4	22	8	5	9	16	12	4	...	2	8	8	19	21	5	2	2	8
100 employees and over.....	72	10	...	1	6	1	3	5	10	2	1	...	...	1	1	6	9	5	5	...	2
Red Lake:																					
1 to 19 employees.....	9	6	...	...	...	...	...	...	2	1	...	...	...	...	...	...	...	...	...	...	...
Redwood:																					
1 to 19 employees.....	18	10	...	...	...	...	...	...	5	...	...	...	...	3	...	...	...	...	...	...	...
Renville:																					
1 to 19 employees.....	27	13	...	...	...	2	...	...	8	...	...	...	...	2	...	1	1	...	...	...	...
20 to 99 employees.....	2	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
Rice:																					
1 to 19 employees.....	22	6	...	...	...	3	...	...	6	...	...	...	...	2	...	1	2	...	...	...	2
20 to 99 employees.....	13	8	...	...	...	...	1	...	1	...	...	...	...	...	...	1	2	...	...	...	...
100 employees and over.....	3	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
Rock:																					
1 to 19 employees.....	12	6	...	...	...	...	...	...	2	1	...	...	...	1	...	...	1	...	...	...	1
20 to 99 employees.....	3	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	2	...	...	...	...
Roseau:																					
1 to 19 employees.....	18	7	...	...	...	6	...	...	4	...	...	...	...	...	...	...	1	...	...	...	...
20 to 99 employees.....	2	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
St. Louis:																					
1 to 19 employees.....	308	39	1	...	4	159	4	2	47	3	1	1	1	12	5	5	9	1	3	1	10
20 to 99 employees.....	54	16	...	2	2	9	1	3	7	1	...	...	...	3	1	3	...	...	2	...	4
100 employees and over.....	20	4	...	...	4	...	...	...	1	...	2	...	...	1	3	1	3	1	...	...	...
Scott:																					
1 to 19 employees.....	20	4	...	...	2	1	...	...	4	...	...	...	...	2	1	2	1	...	...	1	2
20 to 99 employees.....	6	3	...	...	...	1	...	...	...	1	...	...	...	...	1	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...

## MANUFACTURES—AREA STATISTICS

Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954—Continued  
(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establish- ments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Sherburne:																					
1 to 19 employees.....	4	1	...	...	...	...	...	...	1	1	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	3	...	...	...	...	...	...	...	...	...	...	...	...	3	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Sibley:																					
1 to 19 employees.....	22	11	...	...	...	3	...	...	4	...	...	...	...	2	...	...	2	...	...	...	...
20 to 99 employees.....	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Stearns:																					
1 to 19 employees.....	85	24	...	...	1	5	1	...	18	1	...	...	...	17	1	1	13	...	...	1	...
20 to 99 employees.....	20	11	...	...	1	...	...	...	2	...	...	...	...	3	...	...	1	...	...	1	...
100 employees and over.....	3	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	2	...	...	...	...
Steele:																					
1 to 19 employees.....	27	14	...	...	...	...	...	...	3	...	...	...	1	2	...	...	3	1	1	...	...
20 to 99 employees.....	13	2	...	...	1	...	...	...	3	...	...	...	1	...	...	2	4	...	...	...	...
100 employees and over.....	4	2	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...
Stevens:																					
1 to 19 employees.....	11	4	...	...	1	...	...	...	2	...	...	...	...	3	...	...	...	...	...	...	...
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Swift:																					
1 to 19 employees.....	7	3	...	...	...	...	...	...	3	...	...	...	...	...	...	...	1	...	...	...	...
20 to 99 employees.....	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Todd:																					
1 to 19 employees.....	20	9	...	...	...	2	...	...	5	...	...	...	...	1	...	1	1	...	...	...	...
20 to 99 employees.....	2	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Traverse:																					
1 to 19 employees.....	2	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
Wabasha:																					
1 to 19 employees.....	20	9	...	...	1	3	...	...	5	...	...	...	...	2	...	...	...	...	...	...	...
20 to 99 employees.....	3	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
Wadena:																					
1 to 19 employees.....	25	6	...	...	1	12	...	...	5	...	...	...	...	...	...	...	1	...	...	...	...
20 to 99 employees.....	4	3	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Waseca:																					
1 to 19 employees.....	21	11	...	...	...	1	...	...	3	2	...	...	...	2	...	...	1	...	...	1	...
20 to 99 employees.....	2	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
Washington:																					
1 to 19 employees.....	30	7	...	...	...	5	3	...	5	2	...	1	...	...	...	2	4	1	...	...	...
20 to 99 employees.....	7	...	...	...	1	2	...	1	...	...	...	...	...	...	...	3	...	...	...	...	...
100 employees and over.....	7	2	...	...	...	1	...	...	...	1	1	...	1	...	...	1	...	...	...	...	...
Watsonwan:																					
1 to 19 employees.....	13	9	...	...	...	...	...	...	2	...	...	...	...	1	...	1	...	...	...	...	...
100 employees and over.....	3	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
Wilkin:																					
1 to 19 employees.....	6	4	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Winona:																					
1 to 19 employees.....	55	21	...	1	...	3	1	2	5	4	...	...	1	4	1	3	5	...	1	...	...
20 to 99 employees.....	31	7	...	...	2	...	...	...	5	3	...	...	1	2	3	3	3	1	1	...	...
100 employees and over.....	10	5	...	2	...	...	...	...	...	...	...	...	...	...	...	1	1	...	...	...	...
Wright:																					
1 to 19 employees.....	36	14	...	...	...	3	...	...	8	...	...	...	...	5	...	2	2	...	...	...	...
20 to 99 employees.....	10	6	...	...	1	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Yellow Medicine:																					
1 to 19 employees.....	13	6	...	...	...	...	...	...	5	...	...	...	...	2	...	...	...	...	...	...	...
20 to 99 employees.....	3	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...



# MISSISSIPPI (82 COUNTIES)

STANDARD METROPOLITAN AREA

CODE

1 JACKSON



## LEGEND

● PLACES OF 25,000 TO 100,000

★ PLACES OF 100,000 AND OVER



STANDARD METROPOLITAN AREA

## MANUFACTURES—AREA STATISTICS

Table 1.—MANUFACTURING EMPLOYMENT AT OPERATING ESTABLISHMENTS AND CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARIES FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS

(This table includes data for all manufacturing employees including those located in central administrative offices and auxiliaries. Tables 2-7 in this report include data for operating establishments only. For explanation of column captions see Introduction)

State, standard metropolitan areas, and year <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	(Number)	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
Mississippi:						
1954.....	91,261	241,046	90,641	237,350	620	3,696
1953 <sup>2</sup> .....	93,374	238,431	93,159	237,587	215	844
1952 <sup>2</sup> .....	79,978	189,105	78,898	187,453	<sup>3</sup> 1,080	<sup>3</sup> 1,652
1951 <sup>2</sup> .....	80,083	170,228	79,003	168,576	1,080	1,652
1950 <sup>2</sup> .....	73,814	145,966	72,972	144,178	842	1,788
1949 <sup>2</sup> .....	67,651	119,768	67,274	118,812	377	956
1954						
Standard metropolitan area:						
Jackson <sup>4</sup> .....	7,452	21,900	7,421	21,557	31	343

<sup>1</sup>Employment data for administrative offices and auxiliaries on a State basis are not available for the years prior to 1949. Similar data for standard metropolitan areas are available only for 1954.

<sup>2</sup>The employment figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period. The employment figures for administrative and auxiliary units were compiled chiefly from Bureau of Old-Age and Survivors Insurance records and are not strictly comparable with the figures for these units that were collected by the Bureau of the Census for the year 1954.

<sup>3</sup>The 1951 data are shown for 1952 since auxiliary and administrative unit data were not collected in 1952.

<sup>4</sup>The Jackson Standard Metropolitan Area consists of Hinds County, Mississippi.





## MANUFACTURES—AREA STATISTICS

Table 3.--GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
Mississippi, total.....	2,178,914	2,252	90,641	237,350	79,834	156,930	188,803	467,625	37,008	(1)	(1)
STANDARD METROPOLITAN AREAS											
Jackson.....	142,164	185	7,421	21,557	5,870	11,884	14,579	46,940	3,761	6,694	30,373
COUNTIES											
Adams.....	32,256	47	3,997	14,947	3,457	7,016	12,272	49,922	1,782	2,819	9,106
Alcorn.....	27,158	34	1,748	3,737	1,590	3,070	3,010	5,780	246	1,205	4,453
Amite.....	19,261	26	301	602	289	600	573	1,246	45	687	1,935
Attala.....	26,652	35	884	2,514	691	1,417	1,718	4,749	315	1,643	6,413
Benton.....	8,793	5	179	373	172	362	321	418	16	89	(D)
Bolivar.....	63,004	21	655	1,806	557	1,064	1,444	4,607	432	271	1,373
Calhoun.....	18,369	19	665	1,475	622	1,207	1,289	2,091	114	744	2,165
Carroll.....	15,499	12	98	145	91	154	130	234	11	76	(D)
Chickasaw.....	18,951	23	1,034	2,094	977	1,911	1,832	3,858	97	557	1,093
Choctaw.....	11,009	13	130	222	120	210	192	603	43	366	920
Claiborne.....	11,944	19	774	1,652	721	1,363	1,382	2,531	173	137	437
Clarke.....	19,362	23	1,231	2,510	1,205	2,240	2,408	4,090	105	1,561	3,271
Clay.....	17,757	25	1,749	4,408	1,568	3,175	3,621	8,137	262	740	1,995
Coahoma.....	49,361	28	1,015	3,016	750	1,680	1,877	6,554	365	560	3,165
Copiah.....	30,493	46	1,635	2,857	1,540	3,000	2,551	5,499	298	1,345	3,275
Covington.....	16,036	11	238	612	212	419	434	1,065	32	258	440
De Sota.....	24,599	4	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	22	(D)
Forrest.....	45,055	68	3,071	8,214	2,554	4,965	6,066	20,309	766	2,826	16,489
Franklin.....	10,929	22	231	362	216	387	323	909	98	607	1,712
George.....	10,012	11	235	444	222	439	388	810	23	108	184
Greene.....	8,215	16	591	1,321	496	864	769	1,686	74	390	947
Grenada.....	18,830	26	1,183	3,241	1,032	2,075	2,614	5,300	490	1,160	3,409
Hancock.....	11,891	22	83	142	72	129	115	352	16	169	316
Harrison.....	84,073	116	3,525	8,518	3,085	5,297	5,788	15,241	1,714	2,871	7,778
Hinds.....	142,164	185	7,421	21,557	5,870	11,884	14,579	46,940	3,761	6,694	30,373
Holmes.....	33,301	29	412	836	389	689	785	1,403	29	430	1,022
Humphreys.....	23,115	11	146	315	122	252	239	522	16	136	590
Issaquena.....	4,966	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...	...
Itawamba.....	17,216	20	879	1,408	847	1,448	1,313	2,147	108	466	820
Jackson.....	31,401	47	7,528	30,409	7,113	12,660	27,811	52,419	3,934	6,256	(D)
Jasper.....	18,912	22	204	635	225	484	535	1,470	83	442	1,834
Jefferson.....	11,306	9	135	250	123	229	214	255	20	163	275
Jefferson Davis.....	15,500	9	56	114	49	96	96	227	10	55	183
Jones.....	57,235	79	6,078	18,520	5,340	10,718	15,058	38,534	1,456	6,528	34,866
Kemper.....	15,893	15	184	246	180	234	233	388	4	522	1,016
Lafayette.....	22,798	7	142	256	114	219	184	652	42	81	190
Lamar.....	13,225	22	482	934	445	857	838	1,414	118	233	510
Lauderdale.....	64,171	112	4,245	10,896	3,527	9,414	7,961	19,215	1,133	4,321	18,235
Lawrence.....	12,639	10	490	857	468	856	787	1,130	130	391	735
Leake.....	21,610	26	356	632	332	502	510	1,050	35	141	292
Lee.....	38,237	41	3,133	6,906	2,774	5,264	5,344	15,909	781	1,833	7,396
Leflore.....	51,813	32	855	2,227	671	1,310	1,449	4,546	234	770	4,098
Lincoln.....	27,899	31	1,408	3,522	1,198	2,414	2,417	5,245	274	1,250	4,267
Lowndes.....	37,852	52	2,904	6,880	2,568	5,158	5,334	12,217	2,200	2,623	8,984
Madison.....	33,860	20	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	1,228	4,585
Marion.....	23,967	32	1,397	3,198	1,264	2,500	2,647	4,194	156	1,497	5,271
Marshall.....	25,106	16	249	468	215	331	323	839	37	139	634
Monroe.....	36,543	38	1,733	3,241	1,636	3,053	2,788	5,253	308	872	1,985
Montgomery.....	14,470	18	371	862	303	551	570	1,330	40	372	1,234
Neshoba.....	25,730	24	762	1,499	706	1,393	1,298	2,842	88	890	2,607
Newton.....	22,681	30	638	1,143	574	1,009	990	1,724	115	916	2,834
Noxubee.....	20,022	22	461	868	411	759	712	4,236	108	210	525
Oktibbeha.....	24,569	25	729	1,421	650	1,233	1,193	2,646	234	852	4,340
Panola.....	31,271	15	481	1,162	431	848	929	2,508	63	583	1,482
Pearl River.....	20,641	44	1,656	3,865	1,540	2,658	3,091	6,004	2,079	965	4,587
Perry.....	9,108	12	252	550	221	453	414	945	22	180	731
Pike.....	35,137	51	2,312	5,363	2,077	4,322	4,680	9,401	498	1,488	5,301
Pontotoc.....	19,994	10	492	881	456	886	787	1,389	61	219	640
Prentiss.....	19,810	16	784	1,424	760	1,364	1,255	1,906	31	577	713
Quitman.....	25,885	8	187	355	166	332	290	919	130	66	(D)
Rankin.....	28,881	32	1,452	4,192	1,252	2,338	3,245	9,848	405	1,038	3,947
Scott.....	21,681	33	694	1,210	629	1,146	1,004	3,033	171	680	1,479
Sharkey.....	12,903	5	114	266	99	220	201	393	8	90	(D)
Simpson.....	21,819	15	139	256	119	238	201	424	24	215	463
Smith.....	16,740	13	154	231	143	209	173	472	16	285	407

See footnotes at end of table.

Table 3.--GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
COUNTIES--Continued											
Stone.....	6,264	18	448	984	426	933	888	1,681	70	404	833
Sunflower.....	56,031	16	419	768	363	658	586	1,236	118	160	707
Tallahatchie.....	30,486	11	97	185	87	139	131	242	5	197	704
Tate.....	18,011	7	141	258	118	237	217	281	93	22	85
Tippah.....	17,522	18	433	863	410	810	777	1,012	22	147	(D)
Tishomingo.....	15,544	12	573	(D)	546	(D)	(D)	(D)	(D)	128	257
Tunica.....	21,664	3	89	(D)	77	(D)	(D)	(D)	(D)	78	(D)
Union.....	20,262	24	1,057	2,439	971	1,850	2,048	2,972	106	462	1,210
Walthall.....	15,563	6	273	528	254	426	467	594	23	87	183
Warren.....	39,616	47	2,616	8,088	2,062	4,466	5,637	11,792	3,097	2,415	9,683
Washington.....	70,504	52	2,394	6,671	2,015	4,259	5,000	13,513	2,528	1,984	11,550
Wayne.....	17,010	21	701	1,314	680	1,442	1,248	2,088	41	401	1,124
Webster.....	11,607	19	307	523	296	564	498	1,218	17	231	675
Wilkinson.....	14,116	28	869	1,581	824	1,597	1,397	2,018	47	980	4,194
Winston.....	22,231	19	780	1,762	684	1,453	1,362	3,603	59	994	4,295
Yalobusha.....	15,191	11	472	(D)	440	(D)	(D)	(D)	(D)	224	498
Yazoo.....	35,712	29	811	2,593	659	1,436	1,864	6,501	4,097	531	2,060
CITIES WITH 10,000 INHAB- ITANTS OR MORE											
Biloxi.....	37,425	48	1,425	2,480	1,179	1,708	1,652	4,454	435	1,258	2,536
Clarksdale.....	16,539	22	822	2,530	573	1,282	1,489	5,406	295	439	(D)
Columbus.....	17,172	33	1,779	4,497	1,567	3,316	3,450	8,362	276	1,751	6,201
Greenville.....	29,936	31	1,532	4,466	1,270	2,825	3,227	10,791	519	1,816	(D)
Greenwood.....	18,061	24	757	(D)	579	(D)	(D)	(D)	(D)	491	(D)
Gulfport.....	22,659	32	1,513	4,404	1,430	2,614	2,990	8,067	1,152	1,252	4,021
Hattiesburg.....	29,474	41	2,491	6,912	2,033	4,009	5,003	18,064	568	2,210	14,798
Jackson.....	98,271	154	6,652	19,439	5,240	10,555	13,078	43,964	2,185	4,788	23,163
Laurel.....	25,038	54	5,662	17,465	5,018	10,031	14,306	36,226	1,399	6,123	33,898
McComb.....	10,401	28	1,253	3,190	1,079	2,293	2,590	4,902	73	(NA)	(NA)
Meridian.....	41,893	77	3,453	8,689	2,819	8,062	6,098	13,333	876	3,220	12,295
Natchez.....	22,740	32	1,699	5,674	1,340	2,571	4,031	15,409	698	2,449	7,894
Pascagoula.....	10,805	18	5,369	21,581	5,245	8,730	20,630	32,533	1,331	(NA)	(NA)
Tupelo.....	11,527	31	2,682	6,119	2,340	4,457	4,620	15,025	773	(NA)	(NA)
Vicksburg.....	27,948	34	1,317	3,541	1,013	2,105	2,352	5,338	257	1,526	6,323

D Withheld to avoid disclosing figures for individual companies.

NA Separate figures are not available, but are included in totals for the area.

<sup>1</sup> The 1947 data are not strictly comparable with the figures shown for 1954 due to differences in coverage of loggers and fluid milk distributors.  
See discussion in Introduction and footnotes to Table 4.



## MANUFACTURES—AREA STATISTICS

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954										1947	
		Establishments, number		All employees		Production workers			Value added by manufacture	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
	All industries, total <sup>1</sup> ...	2,252	665	90,641	237,350	79,834	156,930	188,803	467,625	( <sup>2</sup> )	37,008	( <sup>3</sup> )	( <sup>3</sup> )
20	Food and kindred products..	428	136	10,782	25,916	7,468	14,474	14,734	60,206	( <sup>2</sup> )	4,486	( <sup>3</sup> )	( <sup>3</sup> )
201	Meat products.....	50	24	2,340	5,024	2,051	3,867	3,847	9,251	( <sup>2</sup> )	682	729	2,850
2011	Meat packing.....	16	8	958	2,555	788	1,717	1,797	4,182	( <sup>2</sup> )	343	569	2,210
2015	Poultry dressing, plants.....	23	15	1,295	2,290	1,193	2,029	1,919	4,634	31,081	276	(D)	(D)
202	Dairy products.....	90	34	2,212	5,958	1,275	2,835	3,208	15,486	( <sup>2</sup> )	1,638	( <sup>3</sup> )	( <sup>3</sup> )
2021	Creamery butter.....	7	3	149	448	110	250	301	887	6,455	137	( <sup>3</sup> )	( <sup>3</sup> )
2022	Natural cheese.....	10	2	176	523	141	313	370	948	5,579	69	( <sup>3</sup> )	( <sup>3</sup> )
2023	Concentrated milk.....	5	3	233	828	189	430	631	4,012	13,574	187	( <sup>3</sup> )	( <sup>3</sup> )
2024	Ice cream and ices.....	18	8	408	998	187	339	381	2,129	4,862	299	( <sup>3</sup> )	( <sup>3</sup> )
2026	Fluid milk.....	8	2	104	253	78	172	180	698	3,271	43	( <sup>3</sup> )	( <sup>3</sup> )
2027	Fluid milk and other products..	42	16	1,141	2,907	568	1,328	1,343	6,810	22,767	901	( <sup>3</sup> )	( <sup>3</sup> )
203	Canned and frozen foods.....	31	16	1,572	2,348	1,488	2,300	2,025	4,703	( <sup>2</sup> )	482	1,611	2,588
2031	Canned seafood.....	14	8	942	1,093	904	1,124	973	1,710	5,284	203	1,019	(D)
204	Grain mill products.....	38	7	726	2,064	536	1,101	1,332	6,916	( <sup>2</sup> )	550	575	3,897
2042	Prepared animal feeds.....	34	7	713	2,043	526	1,078	1,315	6,883	28,167	546	548	3,766
205	Bakery products.....	41	19	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2051	Bread and related products.....	39	17	1,354	4,227	748	1,616	1,775	7,677	15,392	370	1,354	(D)
208	Beverages.....	94	30	1,771	4,507	851	1,689	1,539	9,314	18,273	559	1,539	7,432
2081	Bottled soft drinks.....	94	30	1,771	4,507	851	1,689	1,539	9,314	18,273	559	1,539	7,432
2097	Manufactured ice.....	68	4	493	1,036	259	519	470	1,908	2,547	97	1,086	4,681
2099	Food preparation, n.e.c.....	7	2	152	400	116	224	255	3,567	9,028	35	59	(D)
22	Textile mill.....	28	22	5,220	12,401	4,915	9,404	10,946	16,027	( <sup>2</sup> )	2,618	5,273	17,667
225	Knitting mills.....	20	16	3,125	7,685	2,931	5,714	6,721	10,924	( <sup>2</sup> )	530	2,078	6,573
2251	Full-fashioned hosiery mills...	11	9	1,584	4,424	1,476	2,768	3,921	6,925	10,078	393	1,058	4,157
23	Apparel and related products.....	100	81	19,221	36,210	18,353	36,107	31,708	55,017	( <sup>2</sup> )	1,240	11,034	25,563
232	Men's and boys' suits and coats.....	60	56	15,215	28,061	14,589	29,261	24,884	42,117	( <sup>2</sup> )	838	9,651	22,588
2321	Men's dress shirts & nightwear.	20	20	5,085	8,844	4,863	11,327	7,877	13,425	27,591	324	3,697	8,006
2327	Separate trousers.....	15	12	4,024	8,146	3,879	7,230	7,225	12,470	25,493	285	1,981	(D)
2329	Men's and boys' clothing, nec..	13	13	4,061	7,357	3,839	6,938	6,308	10,901	33,388	180	2,404	5,492
233	Women's and misses' outerwear	7	5	1,150	2,356	1,047	1,812	1,712	2,958	( <sup>2</sup> )	95	(D)	(D)
234	Women's undergarments.....	6	6	763	1,888	718	1,436	1,669	3,352	7,601	194	(D)	(D)
2341	Women's & children's underwear.	6	6	763	1,888	718	1,436	1,669	3,352	7,601	194	(D)	(D)
236	Children's outerwear.....	4	3	419	898	394	607	728	1,022	2,249	34	(D)	(D)
2369	Children's outerwear, n.e.c.....	4	3	419	898	394	607	728	1,022	2,249	34	(D)	(D)
238	Miscellaneous apparel.....	7	6	1,032	1,784	1,012	1,933	1,705	3,828	( <sup>2</sup> )	33	(D)	(D)
24	Lumber and wood products...	1,085	217	21,312	42,376	19,777	37,572	36,288	71,189	( <sup>2</sup> )	3,150	( <sup>3</sup> )	( <sup>3</sup> )
2411	Logging camps and contractors	322	10	1,653	2,534	1,474	2,381	2,224	5,255	10,787	521	( <sup>3</sup> )	( <sup>3</sup> )
242	Lumber and basic products....	672	159	13,136	25,361	12,325	23,410	21,958	39,596	( <sup>2</sup> )	1,727	23,477	69,143
2421	Sawmills and planing mills....	653	146	12,237	23,408	11,461	21,525	20,157	36,951	90,607	1,678	21,448	64,925
2422	Veneer mills.....	10	10	732	1,629	700	1,542	1,489	2,187	4,318	45	620	1,917
243	Millwork and related products	34	15	1,864	4,893	1,693	3,674	4,098	8,141	( <sup>2</sup> )	171	1,048	3,617
2431	Millwork plants.....	28	9	1,173	3,252	1,044	2,359	2,613	5,256	11,693	124	508	1,935
244	Wooden containers.....	18	10	2,837	5,233	2,649	4,774	4,569	10,452	( <sup>2</sup> )	402	2,759	7,424
2444	Wooden boxes.....	14	9	2,742	5,080	2,557	4,603	4,428	10,241	21,031	401	2,744	(D)
249	Miscellaneous wood products...	39	23	1,821	4,355	1,635	3,331	3,437	7,744	( <sup>2</sup> )	328	2,086	9,799
2491	Wood preserving.....	15	11	784	2,013	699	1,424	1,619	4,102	12,228	179	1,080	6,854
25	Furniture and fixtures.....	47	15	3,174	9,237	2,815	5,958	7,301	12,941	( <sup>2</sup> )	808	1,559	2,947
251	Household furniture.....	27	12	2,902	8,517	2,587	5,499	6,740	11,925	( <sup>2</sup> )	759	1,360	2,368
2511	Wood furniture, not upholstered	14	7	2,017	5,982	1,804	3,934	4,724	8,025	15,770	(D)	1,302	2,170
2512	Upholstered household furniture	5	3	683	1,918	612	1,220	1,596	2,928	8,971	97	(D)	(D)
2541	Partitions and fixtures.....	6	1	134	451	105	213	314	542	894	9	(D)	(D)
26	Pulp, paper and products...	20	18	8,094	32,173	7,098	14,855	26,730	85,735	( <sup>2</sup> )	4,634	4,827	36,463
261	Pulp, paper and board.....	11	11	7,420	30,064	6,530	13,732	25,188	82,689	( <sup>2</sup> )	4,445	4,677	35,784
2611	Pulpmills.....	6	6	2,763	11,801	2,499	5,347	10,259	40,296	80,540	2,938	1,834	19,194
267	Paperboard containers.....	6	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2671	Paperboard boxes.....	5	4	320	995	259	535	675	1,019	4,226	(D)	(D)	(D)
27	Printing and publishing....	174	23	2,003	6,672	1,266	2,679	3,885	10,897	( <sup>2</sup> )	425	1,605	6,733
2711	Newspapers.....	106	16	1,411	4,768	865	1,876	2,662	8,304	11,217	255	1,127	4,922
2751	Commercial printing.....	48	6	495	1,641	348	699	1,099	2,172	3,275	158	439	1,600
28	Chemicals and products.....	93	62	5,378	18,721	4,550	9,995	12,949	49,975	( <sup>2</sup> )	(D)	4,787	35,342
283	Drugs and medicines.....	4	2	401	2,162	533	1,008	1,512	6,158	10,666	289	49	(D)
2834	Pharmaceutical preparations....	4	2	401	2,162	533	1,008	1,512	6,158	10,666	289	49	(D)

See footnotes at end of table.



Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establish- ments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
286	Chemicals and products—Con. Gum and wood chemicals.....	6	6	1,676	6,688	1,395	2,971	4,930	15,888	31,843	2,358	1,745	16,763
2862	Softwood distillation.....	6	6	1,676	6,688	1,395	2,971	4,930	15,888	31,843	2,358	1,745	16,763
287	Fertilizers.....	16	10	567	1,303	457	962	990	3,028	(2)	375	632	2,709
2871	Fertilizers.....	10	10	485	1,151	386	838	856	2,516	9,776	286	(D)	(D)
288	Vegetable and animal oils.....	43	37	1,970	5,533	1,616	3,902	3,746	14,606	(2)	1,322	2,274	14,738
2881	Cottonseed oil mills.....	35	34	1,818	5,055	1,495	3,586	3,397	13,545	71,217	895	1,916	12,175
289	Chemical products, n.e.c.....	16	4	279	816	200	354	372	3,063	(2)	(D)	(D)	(D)
2897	Insecticides and fungicides.....	6	3	164	399	142	233	249	1,178	4,376	49	...	...
29	Petroleum and coal products.	7	3	222	874	190	471	681	2,785	(2)	78	(D)	(D)
30	Rubber products.....	3	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
31	Leather and leather goods...	5	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
32	Stone, clay and glass products.....	77	25	2,515	7,923	2,131	4,418	5,905	19,390	(2)	1,832	2,032	10,467
325	Structural clay products.....	17	14	675	1,529	599	1,198	1,126	2,698	(2)	313	498	1,277
327	Concrete and plaster products.	44	3	426	1,040	361	740	760	2,901	4,720	160	457	1,740
3271	Concrete products.....	44	3	426	1,040	361	740	760	2,901	4,720	160	457	1,740
3281	Cut-stone and stone products..	7	1	180	447	156	359	362	895	1,456	30	137	518
33	Primary metal industries....	6	3	166	455	141	295	384	305	(2)	1,800	279	982
34	Fabricated metal products...	58	14	1,876	5,847	1,578	3,319	4,419	12,122	(2)	1,484	445	2,539
344	Structural metal products...	47	11	1,168	3,852	997	2,091	3,007	7,512	(2)	207	249	1,054
3441	Structural and ornamental work..	14	6	288	1,069	211	457	640	2,243	4,671	118	130	482
3443	Boiler shop products.....	5	3	682	2,195	629	1,344	1,940	4,045	6,944	57	83	(D)
35	Machinery, except electrical	52	18	1,677	5,843	1,226	2,606	3,745	11,640	(2)	848	1,053	3,342
352	Tractors and farm machinery...	12	6	473	1,478	290	602	776	2,996	(2)	(D)	88	(D)
355	Special-industry machinery, n.e.c.....	9	2	311	884	231	395	545	3,324	(2)	43	399	1,484
356	General industrial machinery..	8	5	250	947	171	332	511	1,854	(2)	43	(D)	(D)
359	Miscellaneous machinery parts.	17	2	166	615	136	300	422	863	(2)	24	(D)	(D)
36	Electrical machinery.....	12	10	1,058	2,852	969	1,753	2,297	8,982	(2)	1,280	(D)	(D)
37	Transportation equipment....	26	7	6,165	23,851	5,899	10,056	22,284	33,368	(2)	1,036	(D)	(D)
373	Ships and boats.....	16	3	4,971	20,631	4,859	7,910	19,740	28,727	(2)	(D)	(D)	(D)
38	Instruments and related products.....	5	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	12	(D)
39	Miscellaneous manufactures..	26	5	463	1,219	402	798	914	2,834	(2)	155	231	475

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industries (4-digit) and industry groups (3-digit) are not shown. Industries and industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "all industries" line.

<sup>2</sup>The total value of shipments figures for industry groups and a few individual industries have not been published due to the extensive and unmeasurable duplication arising from shipments from one establishment to another in the same industry classification. (See Introduction.)

<sup>3</sup>Comparable data are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude establishments in S.I.C. Industry 2411, Logging Camps and Contractors, which are included in the scope of the 1954 Census; the 1947 Census also excludes plants processing and distributing fluid milk which in 1954 were classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	All industries except subgroups 202 and 2411, total.....	86,776	446,884	76,476	297,188
20	Food and kindred products except subgroup 202, Dairy products.....	8,570	44,720	7,186	28,483
24	Lumber and wood products except Industry 2411, Logging camps and contractors.....	19,659	65,934	29,370	89,983

Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUPS: 1954 AND 1947  
(This State contained no standard metropolitan area with 40,000 or more manufacturing employees in 1954 or 1947)

Table 6.—GENERAL STATISTICS FOR PRINCIPAL INDUSTRIAL COUNTIES (THOSE WITH 20,000 OR MORE MANUFACTURING EMPLOYEES), BY MAJOR INDUSTRY GROUPS: 1954 AND 1947

(This State contained no county with 20,000 or more manufacturing employees in 1954 and 1947)



Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954—Continued  
(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establish- ments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Greene:																					
1 to 19 employees.....	12	1	...	...	...	11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	3	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Grenada:																					
1 to 19 employees.....	18	3	...	...	...	12	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	6	2	...	...	...	2	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hancock:																					
1 to 19 employees.....	21	2	...	...	...	17	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Harrison:																					
1 to 19 employees.....	85	25	...	2	1	23	1	...	9	4	...	...	...	3	1	2	4	...	7	...	1
20 to 99 employees.....	25	16	...	...	...	1	...	...	1	2	1	...	...	1	1	2	...	...	...	...	...
100 employees and over.....	8	5	...	...	1	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
Hinds:																					
1 to 19 employees.....	116	14	...	...	4	23	9	...	26	5	1	...	...	4	1	14	4	2	2	3	4
20 to 99 employees.....	54	15	...	...	2	10	2	1	2	6	...	...	...	5	2	4	3	1	...	...	1
100 employees and over.....	15	4	...	...	1	2	1	1	1	2	...	...	...	2	...	...	...	1	...	...	...
Holmes:																					
1 to 19 employees.....	25	4	...	...	...	16	1	...	2	...	...	...	...	1	...	...	...	...	1	...	...
20 to 99 employees.....	3	...	...	...	1	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Humphreys:																					
1 to 19 employees.....	8	3	...	...	...	4	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	3	...	...	...	...	1	...	...	...	1	...	...	...	...	...	...	1	...	...	...	...
Issaquena:																					
1 to 19 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Itawamba:																					
1 to 19 employees.....	10	...	...	...	...	9	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	7	...	...	...	2	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	3	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Jackson:																					
1 to 19 employees.....	30	5	...	1	...	15	1	...	1	1	...	...	...	1	...	...	...	...	4	...	1
20 to 99 employees.....	11	2	...	...	...	3	...	...	...	1	3	...	...	...	...	...	...	...	1	1	...
100 employees and over.....	6	...	...	...	2	...	...	2	...	...	...	...	...	...	...	...	...	...	2	...	...
Jasper:																					
1 to 19 employees.....	21	1	...	...	...	18	...	...	1	...	...	...	1	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
Jefferson:																					
1 to 19 employees.....	7	1	...	...	...	5	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Jefferson Davis:																					
1 to 19 employees.....	9	2	...	1	...	5	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Jones:																					
1 to 19 employees.....	46	12	...	...	...	17	...	1	3	2	1	...	1	2	...	4	2	...	...	...	1
20 to 99 employees.....	25	8	...	1	...	5	1	1	1	2	1	...	...	1	...	1	3	...	...	...	...
100 employees and over.....	8	1	...	1	1	3	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...
Kemper:																					
1 to 19 employees.....	12	1	...	...	...	11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	3	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Lafayette:																					
1 to 19 employees.....	3	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	4	2	...	...	...	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Lamar:																					
1 to 19 employees.....	17	1	...	...	...	14	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	3	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Lauderdale:																					
1 to 19 employees.....	70	11	...	1	1	34	5	...	3	1	...	...	...	6	...	2	1	...	...	1	4
20 to 99 employees.....	34	10	...	5	...	8	1	2	2	2	...	...	...	2	...	2	...	...	...	...	...
100 employees and over.....	8	1	...	2	1	3	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
Lawrence:																					
1 to 19 employees.....	7	...	...	...	1	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	2	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
100 employees and over.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Leake:																					
1 to 19 employees.....	25	5	...	...	...	18	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Lee:																					
1 to 19 employees.....	20	5	...	...	...	8	2	1	1	...	...	...	...	2	...	...	1	...	...	...	...
20 to 99 employees.....	10	4	...	...	2	...	...	...	1	2	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	11	2	...	...	6	...	...	...	...	...	...	...	...	...	...	1	1	...	...	...	1
Leflore:																					
1 to 19 employees.....	20	4	...	...	...	5	1	...	4	1	...	...	...	...	...	3	...	...	1	...	1
20 to 99 employees.....	11	4	...	...	...	1	...	...	1	3	...	...	...	1	...	...	...	...	1	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
Lincoln:																					
1 to 19 employees.....	21	6	...	...	...	10	1	...	3	...	...	...	...	...	...	...	...	...	...	...	1
20 to 99 employees.....	8	1	...	...	...	5	...	...	...	...	...	...	...	1	...	...	...	1	...	...	...
100 employees and over.....	2	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
Lowndes:																					
1 to 19 employees.....	28	8	...	...	...	13	1	...	...	1	...	...	...	2	...	2	1	...	...	...	...
20 to 99 employees.....	17	7	...	...	...	5	1	...	1	1	...	...	...	1	...	1	...	...	...	...	...
100 employees and over.....	7	...	...	...	1	2	2	...	...	...	...	...	...	1	...	...	...	1	...	...	...



[illegible]

Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954—Continued  
(Counties and size classes in which no manufacturing establishments were reported are omitted)

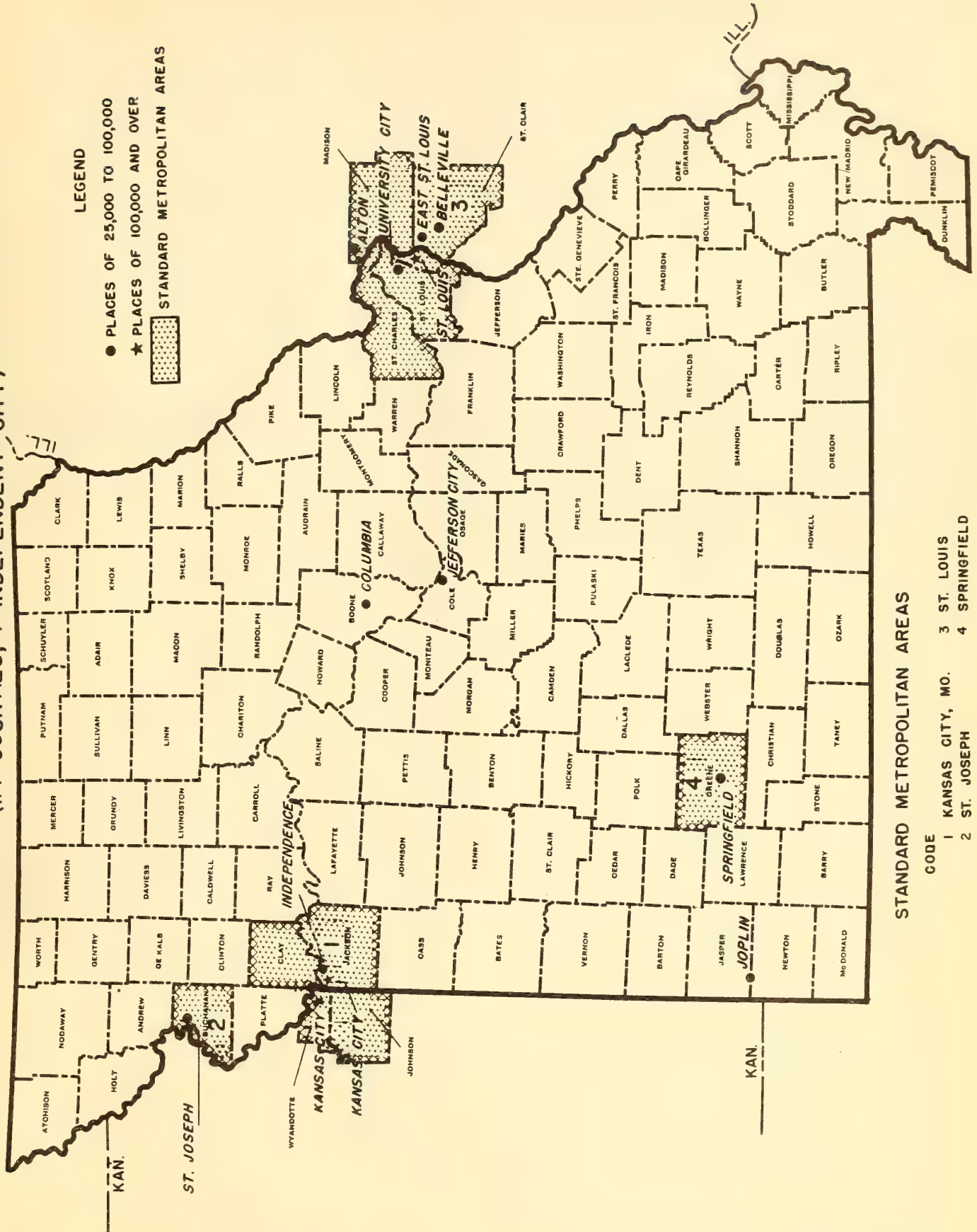
State, county, and size class	Establis. ments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Sunflower:																					
1 to 19 employees.....	11	5	...	...	...	...	...	...	4	1	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	3	...	...	...	...	1	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tallahatchie:																					
1 to 19 employees.....	10	...	...	...	...	9	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tate:																					
1 to 19 employees.....	6	2	...	...	...	3	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tippah:																					
1 to 19 employees.....	16	1	...	...	...	13	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1
100 employees and over.....	2	...	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
Tishomingo:																					
1 to 19 employees.....	9	...	...	...	...	7	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1
20 to 99 employees.....	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tunica:																					
1 to 19 employees.....	2	...	...	...	...	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
Union:																					
1 to 19 employees.....	17	5	...	...	...	9	...	...	1	...	...	...	...	1	...	1	...	...	...	...	...
20 to 99 employees.....	4	2	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	3	...	...	...	2	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Walthall:																					
1 to 19 employees.....	5	2	...	...	...	1	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...
100 employees and over.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Warren:																					
1 to 19 employees.....	24	8	...	...	...	9	...	...	2	...	...	...	...	2	...	1	...	...	1	...	1
20 to 99 employees.....	16	3	...	...	1	6	...	...	3	1	...	...	...	...	...	...	...	2	...	...	...
100 employees and over.....	7	...	...	...	...	3	...	...	1	...	...	...	...	...	...	1	1	...	1	...	...
Washington:																					
1 to 19 employees.....	30	9	...	...	1	8	1	...	4	3	...	...	...	1	...	2	1	...	...	...	...
20 to 99 employees.....	18	3	...	...	...	5	...	1	2	6	...	...	...	...	...	1	...	...	...	...	...
100 employees and over.....	4	1	...	1	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
Wayne:																					
1 to 19 employees.....	16	1	...	...	...	13	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...
20 to 99 employees.....	3	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Webster:																					
1 to 19 employees.....	18	3	...	...	...	12	1	...	...	...	...	...	1	...	...	...	...	...	1	...	...
100 employees and over.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Wilkinson:																					
1 to 19 employees.....	25	3	...	...	...	21	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Winston:																					
1 to 19 employees.....	14	5	...	...	...	8	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	4	...	...	...	...	2	...	...	...	...	...	...	...	1	...	...	1	...	...	...	...
100 employees and over.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Yalobusha:																					
1 to 19 employees.....	10	2	...	...	1	5	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Yazoo:																					
1 to 19 employees.....	28	3	...	...	1	14	...	...	2	...	...	...	...	2	...	...	...	...	...	...	...
20 to 99 employees.....	6	...	...	...	...	4	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...

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# MISSOURI (114 COUNTIES, 1 INDEPENDENT CITY)

- LEGEND**
- PLACES OF 25,000 TO 100,000
  - ★ PLACES OF 100,000 AND OVER
  - STANDARD METROPOLITAN AREAS



## STANDARD METROPOLITAN AREAS

- CODE**
- 1 KANSAS CITY, MO.
  - 2 ST. JOSEPH
  - 3 ST. LOUIS
  - 4 SPRINGFIELD

## MANUFACTURES—AREA STATISTICS

Table 1.—MANUFACTURING EMPLOYMENT AT OPERATING ESTABLISHMENTS AND CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARIES FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS

(This table includes data for all manufacturing employees including those located in central administrative offices and auxiliaries. Tables 2-7 in this report include data for operating establishments only. For explanation of column captions see Introduction)

State, standard metropolitan areas, and year <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	(Number)	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
Missouri:						
1954.....	382,430	1,500,348	368,479	1,420,103	13,951	80,245
1953 <sup>2</sup> .....	405,061	1,552,445	392,950	1,499,153	12,111	53,292
1952 <sup>2</sup> .....	378,258	1,360,676	369,108	1,325,108	<sup>3</sup> 9,150	<sup>3</sup> 35,568
1951 <sup>2</sup> .....	358,318	1,177,911	349,168	1,142,343	9,150	35,568
1950 <sup>2</sup> .....	340,239	1,037,085	330,813	1,103,357	9,426	33,728
1949 <sup>2</sup> .....	325,705	941,925	317,662	914,845	8,043	27,080
1954						
Standard metropolitan areas:						
Kansas City <sup>4</sup> .....	118,053	515,791	115,132	497,764	2,921	18,027
St. Joseph <sup>5</sup> .....	11,268	42,791	11,207	42,574	61	217
St. Louis <sup>6</sup> .....	264,117	1,131,488	251,766	1,060,335	12,351	71,153
Springfield <sup>7</sup> .....	6,695	20,775	6,682	20,697	13	78

<sup>1</sup>Employment data for administrative offices and auxiliaries on a State basis are not available for the years prior to 1949. Similar data for standard metropolitan areas are available only for 1954.<sup>2</sup>The employment figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period. The employment figures for administrative and auxiliary units were compiled chiefly from Bureau of Old-Age and Survivors Insurance records and are not strictly comparable with the figures for these units that were collected by the Bureau of the Census for the year 1954.<sup>3</sup>The 1951 data are shown for 1952 since auxiliary and administrative unit data were not collected in 1952. In some instances, the figures have been withheld because the estimates did not meet publication standards.<sup>4</sup>The Kansas City (Missouri)-Kansas City (Kansas) Standard Metropolitan Area consists of Clay and Jackson Counties, Missouri; Johnson and Wyandotte Counties, Kansas.<sup>5</sup>The St. Joseph Standard Metropolitan Area consists of Buchanan County, Missouri.<sup>6</sup>The St. Louis Standard Metropolitan Area consists of St. Charles and St. Louis Counties and St. Louis City in Missouri; Madison and St. Clair Counties in Illinois.<sup>7</sup>The Springfield Standard Metropolitan Area consists of Greene County, Missouri.

Table 2.—GENERAL STATISTICS FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Year	Establish- ments, number	All employees		Production workers		Value added by manufacture (\$1,000)	
		Number	Payroll (\$1,000)	Number	Wages (\$1,000)		
MISSOURI							
1954 <sup>1</sup> .....	6,198	368,479	1,420,103	285,378	977,327	2,727,266	
1953 <sup>2</sup> .....	}	392,950	1,499,153	314,145	1,083,365	2,786,829	
1952 <sup>2</sup> .....		369,108	1,325,108	292,704	942,611	2,422,709	
1951 <sup>2</sup> .....		349,168	1,142,343	279,791	815,322	2,177,950	
1950 <sup>2</sup> .....		(NA)	330,813	1,103,357	265,312	720,622	2,045,318
1949 <sup>2</sup> .....			317,662	914,845	253,984	639,496	1,731,153
1947.....	5,721	327,114	826,179	269,394	606,825	1,620,887	
1939.....	4,487	220,269	280,667	175,983	187,514	581,804	
1937.....	4,291	216,674	266,587	186,831	202,586	560,398	
1935.....	4,379	184,876	210,312	157,683	153,735	440,928	
1933.....	3,813	(NA)	(NA)	141,176	120,467	383,022	
1931.....	4,824			155,268	162,052	486,535	
1929.....	5,765	240,602	332,278	202,879	240,369	777,497	
1927.....	5,422	(NA)	(NA)	195,378	230,017	660,464	
1925.....	5,114			194,959	230,690	626,702	
1923.....	5,291			196,694	228,015	603,106	
1921.....	5,442	235,772	273,722	156,384	182,897	433,827	
1919.....	8,175			193,754	194,927	534,616	
1914.....	8,367	180,497	126,449	152,115	89,155	249,128	
1909.....	8,375	177,479	109,837	152,993	80,843	219,700	
1904.....	6,464	150,286	85,646	133,167	66,644	187,291	
1899.....	6,853	120,178	60,009	107,704	46,714	132,115	
KANSAS CITY STANDARD METROPOLITAN AREA							
1954 <sup>1</sup> .....	1,513	115,132	497,764	84,903	336,026	1,039,592	
1947.....	1,347	78,686	218,970	61,735	156,262	469,807	
1939.....	1,023	50,680	73,102	38,085	47,410	147,655	
1929.....	1,163	54,008	80,401	44,203	57,076	222,620	
1919.....	1,392	(NA)	(NA)	48,546	55,322	129,365	
ST. LOUIS STANDARD METROPOLITAN AREA							
1954 <sup>1</sup> .....	3,128	251,766	1,060,335	191,375	725,308	2,053,083	
1947.....	2,959	244,481	664,597	200,103	490,880	1,295,842	
1939.....	2,549	162,238	227,865	126,416	151,860	461,772	
1929.....	3,258	174,798	257,764	147,449	189,423	609,157	
1919.....	4,011	(NA)	(NA)	154,311	164,281	454,815	

NA Not available.

<sup>1</sup>The 1954 figures include data for establishments engaged in the processing and distribution of fluid milk, Industry Group 202, Dairy Products. These establishments were not included in the figures for the Annual Survey years 1949-1953 or earlier Census years. In addition, the 1954 Census and Annual Survey years include data for Logging Camps and Contractors, Industry 2411, which were not included within the scope of the 1947 Census. See footnotes to Table 4 for comparable 1954 and 1947 totals. There were also a number of changes in the definition of manufacturing industries during earlier Census years that affect the comparability of the historical series. Among the more important of these were: figures for 1935 and later years exclude data for "Railroad repair shops" and "Manufactured gas" which were included in 1899-1933 figures; the minimum size of establishment included for 1954 and 1947 was one employee, for 1939-1921 manufacturing establishments reporting value of shipments of \$5,000 or more were within scope whereas for 1919 and earlier years the cutoff was \$500. (This change in procedure has not appreciably affected the comparability of the historical data except for the figures on number of establishments.)

<sup>2</sup>The employment and payroll figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period.



## MANUFACTURES--AREA STATISTICS

Table 3.--GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947

(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
Missouri, total.....	3,954,653	6,198	368,479	1,420,103	285,378	552,691	977,327	2,727,266	124,394	1,327,114	1,620,887
STANDARD METROPOLITAN AREAS											
Kansas City (Missouri)-Kansas City (Kansas) area, total...	814,357	1,513	115,132	497,764	84,903	168,431	336,026	1,039,592	45,821	78,686	469,807
Portion in Missouri.....	586,256	1,249	78,604	331,341	57,083	111,864	214,711	659,603	35,088	57,186	332,050
Portion in Kansas.....	228,101	264	36,527	166,422	27,819	56,566	121,315	379,989	10,732	21,500	137,757
St. Joseph area.....	96,826	124	11,207	42,574	8,396	16,694	29,403	64,441	3,052	11,125	52,734
St. Louis area, total.....	1,681,281	3,128	251,766	1,060,335	191,375	373,705	725,308	2,053,083	131,184	244,481	1,295,842
Portion in Missouri.....	1,292,979	2,678	196,080	814,181	148,770	289,309	550,676	1,550,947	62,012	185,201	972,325
Portion in Illinois.....	388,302	450	55,686	246,154	42,605	84,396	174,631	502,136	69,171	59,280	323,517
Springfield area.....	104,823	180	6,682	20,697	5,195	10,686	14,563	48,283	6,229	5,295	18,506
COUNTIES											
Adair.....	19,689	10	637	1,466	552	1,019	1,240	2,772	213	803	2,065
Andrew.....	11,727	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Atchison.....	11,127	6	50	135	38	76	97	365	9	14	58
Audrain.....	23,829	33	3,439	12,759	2,688	5,221	8,750	22,335	1,099	3,919	14,129
Barry.....	21,755	29	748	1,792	647	1,287	1,436	4,153	198	485	876
Barton.....	12,678	14	622	2,204	492	984	1,553	4,785	432	308	(D)
Bates.....	17,534	18	118	355	99	197	272	595	36	110	386
Benton.....	9,080	6	78	169	55	118	118	303	6	48	248
Bollinger.....	11,019	18	233	468	188	335	310	771	16	78	95
Boone.....	48,432	41	1,098	3,848	759	1,535	2,124	6,839	382	1,182	4,662
Buchanan.....	96,826	124	11,207	42,574	8,396	16,694	29,403	64,441	3,052	11,125	52,734
Butler.....	37,707	40	1,157	2,729	1,006	1,952	2,239	5,453	179	837	2,468
Caldwell.....	9,929	5	287	(D)	270	(D)	(D)	(D)	(D)	66	91
Callaway.....	23,316	14	1,180	3,187	1,041	1,837	2,644	7,496	228	1,067	3,591
Camden.....	7,861	9	98	297	83	170	169	273	6	49	104
Cape Girardeau.....	38,397	70	3,179	8,292	2,783	5,054	6,793	19,050	621	3,705	11,868
Carroll.....	15,589	10	235	512	204	347	375	940	142	237	492
Carter.....	4,777	10	65	116	60	120	108	226	23	20	45
Cass.....	19,325	24	430	1,163	371	707	895	1,872	112	499	1,761
Cedar.....	10,663	10	405	922	371	699	816	1,736	62	173	(D)
Chariton.....	14,944	13	249	451	233	433	389	851	13	212	1,999
Christian.....	12,412	11	213	502	191	431	409	1,078	23	140	290
Clark.....	9,003	5	122	347	103	214	258	1,045	41	12	24
Clay.....	45,221	103	10,466	46,020	7,514	14,938	29,360	103,656	3,416	7,240	52,151
Clinton.....	11,726	10	106	223	97	197	197	274	27	162	416
Cole.....	35,464	36	1,915	5,451	1,611	3,009	4,153	9,437	165	2,343	8,235
Cooper.....	16,608	15	813	1,651	730	1,106	1,239	2,574	168	737	1,466
Crawford.....	11,615	19	813	2,075	743	1,438	1,708	3,568	42	291	838
Dade.....	9,324	6	58	128	48	99	99	77	3	99	134
Dallas.....	10,392	5	33	107	20	43	60	193	10	25	(D)
Daviess.....	11,180	11	238	567	226	444	498	800	20	19	60
DeKalb.....	8,047	5	12	16	9	18	13	33	2	6	16
Dent.....	10,936	25	711	1,396	657	1,113	1,250	3,117	44	450	969
Douglas.....	12,638	9	73	177	64	145	147	241	17	100	289
Dunklin.....	45,329	22	922	1,887	852	1,464	1,597	3,042	271	872	2,769
Franklin.....	36,046	69	4,551	11,567	4,156	7,439	9,869	23,563	327	4,038	10,238
Gasconade.....	12,342	12	1,323	3,256	1,242	2,146	3,033	7,540	46	1,463	4,601
Gentry.....	11,036	8	117	231	106	202	193	290	5	90	288
Greene.....	104,823	180	6,682	20,697	5,195	10,686	14,563	48,283	6,229	5,295	18,506
Grundy.....	13,220	14	574	1,589	458	962	1,140	1,241	213	251	997
Harrison.....	14,107	6	17	50	16	36	43	70	2	20	55
Henry.....	20,043	25	830	1,942	704	1,355	1,483	4,096	65	788	3,089
Hickory.....	5,387	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Holt.....	9,833	5	8	22	6	13	16	44	1	6	14
Howard.....	11,857	6	35	65	30	56	55	127	4	40	204
Howell.....	22,725	46	1,147	2,732	1,027	2,041	2,299	6,215	143	598	1,336
Iron.....	9,458	20	103	213	93	174	176	315	5	163	487
Jackson.....	541,035	1,146	68,137	285,320	49,567	96,925	185,350	555,946	31,672	49,946	279,899
Jasper.....	79,106	146	7,525	25,383	6,223	12,454	19,327	44,468	3,240	5,500	25,216
Jefferson.....	38,007	33	3,759	19,637	3,103	6,765	16,218	35,231	2,686	4,438	30,560
Johnson.....	20,716	19	700	1,619	638	1,221	1,443	2,743	49	527	3,234
Knox.....	7,617	3	76	(D)	70	(D)	(D)	(D)	(D)	138	(D)
Laclede.....	19,010	22	968	2,252	866	1,607	1,819	3,790	224	642	1,477
Lafayette.....	25,272	24	784	1,781	687	1,382	1,491	3,235	150	918	2,912
Lawrence.....	23,420	31	1,197	3,731	1,041	2,106	2,834	10,357	240	927	5,490

See footnotes at end of table.

Table 3.--GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947--Continued  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	Estab- lish- ments, number	1954						1947		
			All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
Lewis.....	10,733	10	243	651	219	336	565	938	41	273	955
Lincoln.....	13,478	13	531	1,058	501	885	965	2,151	24	572	1,534
Linn.....	18,865	18	734	1,833	598	911	1,275	3,655	82	738	2,635
Livingston.....	16,532	19	540	1,268	487	924	1,062	1,961	327	626	2,729
McDonald.....	14,144	10	94	178	79	154	139	685	22	139	305
Macon.....	18,332	11	418	794	384	646	667	1,219	102	225	539
Madison.....	10,380	13	495	1,156	480	772	1,114	2,965	34	634	(D)
Maries.....	7,423	6	375	835	332	582	693	1,791	48	65	(D)
Marion.....	29,765	41	2,579	7,165	2,146	3,861	5,510	12,979	238	2,976	9,566
Mercer.....	7,235	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Miller.....	13,734	21	342	922	295	585	736	1,967	132	496	1,918
Mississippi.....	22,551	14	640	1,301	605	1,050	1,180	2,374	56	731	2,038
Moniteau.....	10,840	11	656	1,565	614	1,126	1,237	2,329	116	421	1,572
Monroe.....	11,314	11	254	(D)	215	(D)	(D)	(D)	(D)	382	(D)
Montgomery.....	11,555	20	291	818	244	461	598	1,252	98	223	994
Morgan.....	10,207	14	405	1,018	371	654	799	1,609	15	227	(D)
New Madrid.....	39,444	15	714	1,940	624	1,370	1,511	2,466	95	570	1,900
Newton.....	28,240	26	974	2,581	807	1,515	1,881	6,015	189	610	6,557
Nodaway.....	24,033	19	218	576	162	358	396	1,047	76	171	812
Oregon.....	11,978	16	195	328	180	334	273	532	56	64	165
Osage.....	11,301	17	330	630	292	570	528	821	81	223	589
Ozark.....	8,856	4	27	(D)	22	(D)	(D)	(D)	(D)	48	128
Pemiscot.....	45,624	23	828	1,893	782	1,540	1,708	4,334	94	754	2,390
Perry.....	14,890	16	1,110	2,779	1,043	1,932	2,580	5,960	42	1,377	(D)
Pettis.....	31,577	32	2,140	6,516	1,690	3,247	4,192	11,415	510	1,723	6,335
Phelps.....	21,504	20	815	2,010	706	1,249	1,544	4,332	91	820	2,675
Pike.....	16,844	18	829	2,573	732	1,413	2,013	3,831	282	601	1,385
Platte.....	14,973	11	86	328	73	166	284	698	86	81	120
Polk.....	16,062	15	119	279	90	213	220	1,012	47	110	406
Pulaski.....	10,392	13	458	906	429	708	815	2,208	40	165	285
Putnam.....	9,166	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Ralls.....	8,686	10	431	1,675	365	768	1,337	3,525	30	497	(D)
Randolph.....	22,918	30	1,596	3,807	1,467	2,693	3,344	6,864	160	1,169	5,636
Ray.....	15,932	8	86	213	58	103	116	300	40	130	361
Reynolds.....	6,918	21	68	79	62	95	75	137	9	98	195
Ripley.....	11,414	19	62	87	55	79	73	156	16	31	(D)
St. Charles.....	29,834	29	2,309	9,348	1,606	3,321	6,038	16,472	357	2,262	4,633
St. Clair.....	10,482	4	23	52	22	49	54	94	2	36	93
St. Francois.....	35,276	47	1,489	3,722	1,271	2,156	2,702	5,804	524	1,770	4,880
St. Louis.....	406,349	419	35,678	160,712	25,588	51,348	104,889	326,687	11,012	10,347	58,596
St. Louis City <sup>2</sup> .....	856,796	2,230	158,092	644,120	121,575	234,639	439,748	1,207,787	50,642	172,592	909,096
Ste. Genevieve.....	11,237	20	1,337	4,266	1,202	2,366	3,562	8,116	558	1,006	5,107
Saline.....	26,694	20	1,799	3,999	1,673	3,007	3,625	9,167	183	1,897	5,216
Schuyler.....	5,760	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Scotland.....	7,332	6	42	116	28	58	73	208	20	24	118
Scot.....	32,842	32	2,100	5,308	1,822	3,418	4,193	9,999	490	1,788	5,701
Shannon.....	8,377	23	346	645	331	578	587	1,722	26	170	534
Shelby.....	9,730	10	118	318	105	213	283	567	83	142	(D)
Stoddard.....	33,463	28	1,204	2,605	1,116	2,064	2,291	4,648	59	978	2,567
Stone.....	9,748	13	368	503	363	584	490	699	28	374	392
Sullivan.....	11,299	5	132	(D)	120	(D)	(D)	(D)	(D)	108	(D)
Taney.....	9,863	18	215	333	207	380	315	484	26	89	227
Texas.....	18,992	29	945	1,886	850	1,562	1,641	4,578	314	380	789
Vernon.....	22,685	15	255	626	217	430	465	1,063	50	172	504
Warren.....	7,666	13	527	1,557	464	927	1,262	2,327	52	543	1,548
Washington.....	14,689	11	489	1,148	464	815	1,034	4,053	36	578	(D)
Wayne.....	10,514	19	63	101	54	99	86	173	29	154	271
Webster.....	15,072	11	114	242	94	172	177	556	13	77	(D)
Worth.....	5,120	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Wright.....	15,834	21	520	1,051	488	867	959	2,220	64	401	(D)
CITIES WITH 10,000 INHABITANTS OR MORE											
Cape Girardeau.....	21,578	41	2,677	6,949	2,351	4,161	5,716	16,649	323	2,510	8,453
Carthage.....	11,188	25	1,427	4,757	1,175	2,461	3,506	6,633	348	1,142	4,913
Clayton.....	16,035	11	259	922	170	348	552	2,123	55	52	224
Columbia.....	31,974	33	639	1,873	465	969	1,181	3,026	175	806	(D)
Ferguson.....	11,573	10	29	106	22	48	77	216	77	...	...
Fulton.....	10,052	12	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...	...
Hannibal.....	20,444	32	2,314	6,645	1,899	3,379	5,025	12,017	211	2,927	9,352
Independence.....	36,963	55	1,114	3,954	823	1,544	2,496	8,244	494	1,261	6,845
Jefferson City.....	25,099	28	1,868	5,361	1,573	2,929	4,078	9,333	154	2,305	8,127
Jennings.....	15,282	13	277	1,068	208	402	686	1,713	51	...	...

See footnotes at end of table.

## MANUFACTURES—AREA STATISTICS

Table 3.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new, (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
Joplin.....	38,711	81	3,785	13,230	2,986	6,108	9,697	19,871	2,077	2,373	10,203
Kansas City.....	456,622	1,029	51,619	212,630	37,613	73,923	136,477	403,507	24,102	46,636	266,095
Kirksville.....	11,110	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	803	2,065
Kirkwood.....	18,640	25	287	1,001	231	417	696	1,845	136	69	226
Maplewood.....	13,416	28	2,116	10,156	1,587	3,336	6,654	20,022	579	818	3,656
Mexico.....	11,623	21	2,570	9,875	1,933	3,822	6,368	16,074	755	(NA)	(NA)
Moberly.....	13,115	24	1,555	3,711	1,431	2,614	3,260	6,672	147	(D)	(D)
Overland.....	11,566	23	778	2,966	613	1,148	2,067	4,918	584	(NA)	(NA)
Poplar Bluff.....	15,064	25	1,088	2,619	948	1,859	2,158	5,217	172	696	2,063
Richmond Heights.....	15,045	4	14	44	6	13	15	79	8	(D)	(D)
St. Charles.....	14,314	21	2,181	9,017	1,487	3,069	5,744	15,863	355	2,208	(D)
St. Joseph.....	78,588	108	7,361	26,033	5,441	10,439	16,673	48,052	1,565	8,494	(D)
St. Louis <sup>2</sup> .....	856,796	2,230	158,092	644,120	121,575	234,639	439,748	1,207,787	50,642	172,592	909,096
Sedalia.....	20,354	31	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Sikeston.....	11,640	18	1,004	2,832	770	1,502	1,974	6,244	464	(NA)	(NA)
Springfield.....	66,731	150	6,111	19,204	4,668	9,630	13,273	45,441	6,096	4,859	16,967
University City.....	39,892	26	881	4,028	642	1,223	2,342	7,955	321	670	3,766
Webster Groves.....	23,390	16	370	(D)	169	(D)	(D)	(D)	(D)	240	(D)

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>The 1947 data are not strictly comparable with the figures shown for 1954 due to differences in coverage of loggers and fluid milk distributors.  
See discussion in Introduction and footnotes to Table 4.<sup>2</sup>Independent city.



Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954										1947	
		Establishments, number		All employees		Production workers			Value added by manufacture	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
	All industries, total <sup>1</sup> ...	6,198	2,179	368,479	1,420,103	285,378	552,691	977,327	2,727,266	( <sup>2</sup> )	124,394	<sup>3</sup> 327,114	<sup>3</sup> 1,620,887
20	Food and kindred products..	1,080	385	53,750	216,678	36,349	73,742	132,800	460,274	( <sup>2</sup> )	27,985	( <sup>4</sup> )	( <sup>4</sup> )
201	Meat products.....	140	50	11,229	45,345	8,854	18,194	33,801	59,628	( <sup>2</sup> )	2,149	11,022	45,575
2011	Meat packing, plants.....	67	26	9,191	40,128	7,065	14,741	29,712	49,067	( <sup>2</sup> )	1,812	9,281	39,908
2013	Prepared meats.....	29	7	603	2,211	485	1,042	1,636	4,473	( <sup>2</sup> )	170	593	3,028
2015	Poultry dressing, plants.....	44	17	1,434	3,005	1,303	2,410	2,453	6,087	( <sup>2</sup> )	166	1,148	2,639
202	Dairy products.....	265	99	9,827	38,946	4,970	11,210	16,083	73,506	( <sup>2</sup> )	8,397	( <sup>4</sup> )	( <sup>4</sup> )
2021	Creamery butter.....	33	14	1,221	4,288	848	2,002	2,612	7,860	( <sup>2</sup> )	909	( <sup>4</sup> )	( <sup>4</sup> )
2022	Natural cheese.....	39	18	872	2,479	713	1,697	1,936	4,581	( <sup>2</sup> )	573	( <sup>4</sup> )	( <sup>4</sup> )
2023	Concentrated milk.....	14	6	483	1,719	400	910	1,290	8,160	( <sup>2</sup> )	188	( <sup>4</sup> )	( <sup>4</sup> )
2024	Ice cream and ices.....	41	13	806	3,188	455	849	1,353	7,009	( <sup>2</sup> )	(D)	( <sup>4</sup> )	( <sup>4</sup> )
2025	Special dairy products.....	9	6	406	1,318	303	594	908	2,288	( <sup>2</sup> )	(D)	( <sup>4</sup> )	( <sup>4</sup> )
2026	Fluid milk.....	27	1	146	443	113	235	280	608	( <sup>2</sup> )	123	( <sup>4</sup> )	( <sup>4</sup> )
2027	Fluid milk and other products..	102	41	5,891	25,509	2,135	4,920	7,700	42,997	( <sup>2</sup> )	3,208	( <sup>4</sup> )	( <sup>4</sup> )
203	Canned and frozen foods.....	34	10	(D)	(D)	(D)	(D)	(D)	(D)	( <sup>2</sup> )	(D)	(D)	(D)
2035	Pickles and sauces.....	17	6	293	920	233	449	511	1,333	( <sup>2</sup> )	108	348	1,626
204	Grain mill products.....	124	41	5,407	21,061	3,916	8,289	14,465	60,733	( <sup>2</sup> )	3,179	6,303	59,891
2041	Flour and meal.....	21	13	1,537	6,602	1,152	2,622	4,811	17,775	( <sup>2</sup> )	551	3,384	35,979
2042	Prepared animal feeds.....	92	24	2,956	10,452	2,083	4,437	7,136	30,832	( <sup>2</sup> )	2,396	2,725	22,188
205	Bakery products.....	173	68	9,685	37,079	5,837	10,987	18,464	62,988	( <sup>2</sup> )	3,274	9,743	45,836
2051	Bread and related products.....	157	58	8,557	33,434	4,942	9,266	16,048	53,239	( <sup>2</sup> )	3,031	7,032	31,971
2052	Biscuits and crackers.....	16	10	1,127	3,645	895	1,720	2,415	9,749	( <sup>2</sup> )	243	2,711	13,865
207	Candy and related products...	23	7	1,103	3,369	731	1,528	2,027	5,911	( <sup>2</sup> )	161	2,621	11,754
2071	Confectionery products.....	23	7	1,103	3,369	731	1,528	2,027	5,911	( <sup>2</sup> )	161	2,621	11,754
208	Beverages.....	141	50	9,258	46,542	6,418	12,916	32,169	129,224	( <sup>2</sup> )	6,545	8,959	91,790
2081	Bottled soft drinks.....	125	37	2,958	10,725	1,253	2,404	3,505	21,656	( <sup>2</sup> )	1,367	2,530	14,219
2082	Beer and ale.....	10	9	6,132	34,914	5,025	10,197	28,089	104,738	( <sup>2</sup> )	5,086	6,192	75,907
209	Miscellaneous foods.....	179	59	6,411	22,200	4,899	9,336	14,358	64,690	( <sup>2</sup> )	4,108	7,426	54,635
2095	Flavorings.....	25	5	455	2,206	318	587	1,086	11,936	( <sup>2</sup> )	918	477	8,275
2097	Manufactured ice.....	47	6	641	2,042	339	752	1,056	4,321	( <sup>2</sup> )	526	1,344	6,897
2098	Macaroni and spaghetti.....	6	4	305	986	216	407	518	2,066	( <sup>2</sup> )	79	425	1,862
2099	Food preparations, n.e.c.....	94	38	3,664	10,361	2,901	5,346	6,385	23,401	( <sup>2</sup> )	1,125	3,705	(D)
21	Tobacco manufactures.....	10	3	(D)	(D)	(D)	(D)	(D)	(D)	( <sup>2</sup> )	(D)	1,867	(D)
22	Textile mill products.....	35	21	3,164	9,126	2,752	5,211	6,922	15,017	( <sup>2</sup> )	489	2,888	9,972
2261	Finishing textiles exc. wool.	7	3	271	675	220	324	477	874	( <sup>2</sup> )	75	245	(D)
228	Hats, except cloth and mil- inery.....	7	4	715	1,994	647	1,302	1,596	3,011	( <sup>2</sup> )	51	(D)	(D)
229	Miscellaneous textile goods..	13	6	1,113	3,547	911	1,858	2,381	6,447	( <sup>2</sup> )	265	1,162	4,952
2294	Processed textile waste.....	4	1	250	542	214	454	458	957	( <sup>2</sup> )	182	(D)	(D)
23	Apparel and related products	531	339	35,375	90,803	31,561	56,977	69,444	145,390	( <sup>2</sup> )	2,590	37,174	129,167
231	Men's and boys' suits and coats.....	19	16	2,735	8,261	2,471	4,510	6,571	14,336	( <sup>2</sup> )	67	2,373	11,682
2311	Men's and boys' suits and coats	19	16	2,735	8,261	2,471	4,510	6,571	14,336	( <sup>2</sup> )	67	(D)	(D)
232	Men's and boys' furnishings.	125	100	13,148	29,255	12,062	21,687	23,596	41,326	( <sup>2</sup> )	584	13,578	35,466
2321	Men's dress shirts & nightwear.	19	17	2,619	5,602	2,470	4,384	4,775	7,923	( <sup>2</sup> )	163	3,755	8,578
2325	Men's and boys' cloth hats....	25	21	1,523	3,520	1,458	2,784	3,127	5,071	( <sup>2</sup> )	88	1,122	3,143
2327	Separate trousers.....	31	24	3,239	6,686	3,041	5,683	5,539	10,076	( <sup>2</sup> )	88	2,226	6,783
2329	Men's & boys' clothing, n.e.c..	39	33	5,111	11,937	4,520	7,859	9,114	16,099	( <sup>2</sup> )	231	5,290	13,149
233	Women's and misses' outer- wear.....	166	118	11,847	33,263	10,427	18,862	24,804	59,195	( <sup>2</sup> )	425	12,207	48,621
2333	Dresses, unit price.....	58	39	4,057	10,411	3,625	6,421	8,164	18,065	( <sup>2</sup> )	104	5,026	19,885
2334	Dresses, dozen price.....	45	31	3,913	9,735	3,475	6,398	7,717	20,403	( <sup>2</sup> )	193	4,284	15,716
2337	Women's suits, coats, & skirts.	44	38	3,325	11,893	2,834	5,158	7,925	18,817	( <sup>2</sup> )	120	2,294	(D)
234	Women's undergarments.....	17	14	1,351	3,145	1,201	2,115	2,310	5,668	( <sup>2</sup> )	88	1,502	6,153
236	Children's outerwear.....	18	12	867	1,997	770	1,324	1,444	3,663	( <sup>2</sup> )	51	(D)	(D)
2369	Children's outerwear, n.e.c.....	9	6	479	1,048	429	738	774	2,011	( <sup>2</sup> )	29	296	(D)
238	Miscellaneous apparel.....	23	16	1,200	2,518	1,109	1,886	2,115	3,739	( <sup>2</sup> )	59	2,493	9,344
2382	Fabric work gloves.....	7	7	686	1,243	659	1,109	1,119	1,744	( <sup>2</sup> )	10	1,094	3,686
239	Fabricated textiles, n.e.c....	140	55	3,858	11,383	3,212	6,037	7,846	16,051	( <sup>2</sup> )	1,309	3,943	14,062
2391	Curtains and draperies.....	14	7	359	1,003	303	555	613	1,562	( <sup>2</sup> )	11	277	1,177
2392	Housefurnishings, n.e.c.....	22	7	394	1,106	308	581	686	1,816	( <sup>2</sup> )	72	286	1,025
2393	Textile bags.....	11	9	1,065	3,324	865	1,689	2,322	3,739	( <sup>2</sup> )	1,142	1,781	5,722
2394	Canvas products.....	43	14	846	2,420	693	1,334	1,634	3,705	( <sup>2</sup> )	34	395	1,839
2398	Embroideries, except schiffli..	12	3	188	365	181	290	345	509	( <sup>2</sup> )	(D)	(D)	(D)
2399	Textile products, n.e.c.....	17	4	230	690	172	322	368	1,021	( <sup>2</sup> )	10	428	1,463

See footnotes at end of table.

Table 3.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
24	Lumber and wood products...	595	81	6,485	18,510	5,622	11,010	14,058	29,055	(2)	955	(4)	(4)
242	Lumber and basic products....	369	24	2,780	6,760	2,535	4,838	5,541	11,888	(2)	449	2,909	8,176
2421	Sawmills and planing mills.....	337	17	2,294	5,743	2,076	3,989	4,657	10,379	21,094	400	2,083	5,939
243	Millwork and related products	82	23	1,441	5,672	1,105	2,293	3,871	7,161	(2)	139	1,674	7,065
2431	Millwork plants.....	74	18	1,235	4,757	932	1,956	3,222	5,669	10,676	115	1,420	(D)
2433	Prefabricated wood products....	8	5	206	915	172	337	649	1,492	4,144	23	(D)	(D)
244	Wooden containers.....	32	11	764	2,084	679	1,442	1,606	3,367	(2)	155	1,365	4,155
2444	Wooden boxes.....	25	10	642	1,829	567	1,238	1,379	3,012	6,271	109	824	2,595
249	Miscellaneous wood products..	84	23	1,436	3,855	1,249	2,362	2,959	6,487	(2)	165	1,232	4,691
2491	Wood preserving.....	6	5	295	700	254	422	547	1,548	3,291	18	(D)	(D)
2492	Lasts and related products.....	10	4	284	1,153	247	498	900	1,695	2,293	(D)	241	1,089
2499	Wood products, n.e.c.....	60	13	779	1,806	677	1,294	1,356	2,917	5,514	120	584	1,645
25	Furniture and fixtures.....	208	77	6,940	25,366	5,747	11,217	18,128	38,666	(2)	801	7,461	27,882
251	Household furniture.....	99	35	3,161	10,352	2,676	5,238	7,659	17,284	(2)	306	4,179	14,166
2511	Wood furniture, not uphlstd....	38	11	680	2,031	570	1,133	1,562	2,862	5,658	(D)	1,712	4,956
2512	Upholstd. household furniture..	28	14	785	2,368	680	1,279	1,719	3,770	8,924	46	(D)	(D)
2514	Metal household furniture.....	12	6	1,284	4,391	1,109	2,197	3,411	6,985	15,533	(D)	(D)	(D)
2515	Mattresses and bedsprings.....	21	4	411	1,562	316	626	965	3,666	9,259	46	652	3,389
252	Office furniture.....	8	4	338	1,253	266	536	846	1,927	(2)	30	296	1,375
253	Public and professional fur- niture.....	17	6	964	4,012	732	1,465	2,726	6,371	(2)	196	(D)	(D)
2541	Partitions and fixtures.....	46	16	1,213	4,758	982	1,844	3,485	6,449	10,582	104	1,191	4,598
256	Screens, shades and blinds.....	24	7	477	1,893	454	904	1,188	3,249	(2)	69	693	2,968
2563	Venetian blinds.....	17	3	311	1,005	221	454	572	1,607	3,489	30	549	2,168
259	Furniture and fixtures, n.e.c	14	9	785	3,096	634	1,227	2,222	3,383	(2)	94	(D)	(D)
26	Pulp, paper and products...	114	80	10,996	40,758	8,917	17,782	28,275	71,245	(2)	6,861	9,104	41,250
2651	Envelopes.....	11	8	1,276	5,339	1,005	2,086	3,396	8,405	14,834	188	1,096	6,599
2661	Paper bags.....	11	8	1,570	5,541	1,235	2,383	3,616	7,475	23,344	259	(D)	(D)
267	Paperboard containers.....	51	41	4,937	18,662	4,047	8,068	13,213	29,111	(2)	3,524	4,603	19,306
269	Pulp, paper and products, n.e.c.....	33	17	2,707	8,848	2,238	4,454	6,392	21,620	(2)	(D)	2,074	7,262
2699	Paper & board products, n.e.c..	21	12	2,449	7,975	2,011	4,022	5,703	20,006	40,194	(D)	1,863	6,520
27	Printing and publishing....	1,021	193	23,997	101,855	15,759	29,257	61,737	162,896	(2)	9,575	21,534	116,723
2711	Newspapers.....	313	39	7,629	33,775	4,640	8,507	20,278	56,295	89,063	882	7,142	45,169
2721	Periodicals.....	55	11	1,697	6,200	576	1,092	1,991	12,365	19,520	389	1,768	8,523
273	Books.....	28	12	1,207	4,486	714	1,328	2,335	7,693	(2)	149	833	4,482
2731	Books; publishing & printing...	17	8	825	3,091	417	751	1,424	5,484	10,097	109	470	3,101
2732	Book printing.....	11	4	382	1,395	297	576	911	2,209	2,835	40	363	1,381
2741	Miscellaneous publishing.....	20	3	340	778	50	81	122	1,295	1,991	32	307	1,826
2751	Commercial printing.....	338	53	5,001	20,990	3,820	7,081	14,446	29,978	52,179	1,291	5,812	25,791
2761	Lithographing.....	122	42	3,709	17,879	2,819	5,525	11,714	26,623	46,000	2,434	2,027	9,688
278	Bookbinding and related indus- tries.....	49	12	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2781	Bookbinding.....	22	6	377	1,371	330	574	1,067	2,051	2,647	90	307	1,165
2783	Loose-leaf binders and devices.	9	3	227	688	185	307	478	1,611	2,612	56	358	(D)
279	Printing trade services.....	91	19	1,332	6,685	996	1,902	4,675	9,012	(2)	436	1,186	6,475
2791	Typesetting.....	45	5	503	2,631	407	777	2,008	3,690	4,277	189	337	1,978
2792	Engraving and plate printing...	14	3	224	736	183	363	529	991	1,323	11	189	519
2793	Photoengraving.....	24	6	409	2,252	266	502	1,463	3,025	3,475	205	419	2,569
2794	Electrotyping & stereotyping...	8	5	192	1,062	134	255	668	1,301	1,643	27	241	1,409
28	Chemicals and products.....	355	127	17,890	80,166	11,289	22,537	43,639	225,617	(2)	12,179	15,568	129,257
281	Inorganic chemicals.....	7	3	412	1,768	325	639	1,309	3,190	16,144	(D)	319	2,940
2819	Inorganic chemicals, n.e.c.....	7	3	412	1,768	325	639	1,309	3,190	16,144	(D)	319	2,940
283	Drugs and medicines.....	59	24	5,220	23,286	2,986	6,089	11,643	55,863	(2)	1,491	4,788	40,308
2834	Pharmaceutical preparations....	52	19	2,766	10,501	1,554	3,106	4,892	40,350	57,834	717	3,266	33,376
284	Soap and related products....	61	13	1,663	7,784	950	1,847	3,730	33,944	(2)	690	1,101	12,021
2841	Soap and glycerin.....	10	5	554	2,820	307	605	1,357	16,112	29,857	127	564	8,669
2842	Cleaning & polishing products..	51	8	1,109	4,964	642	1,242	2,373	17,832	42,333	563	537	3,352
285	Paints and allied products...	69	29	4,310	19,877	2,666	5,221	10,412	61,782	(2)	1,161	3,868	32,987
2851	Paints and varnishes.....	58	24	2,569	12,162	1,339	2,634	4,621	31,008	57,354	653	2,073	18,505
287	Fertilizers.....	13	9	515	1,978	431	1,046	1,458	5,889	(2)	1,292	(D)	(D)
2871	Fertilizers.....	7	5	337	1,304	286	719	991	3,780	13,520	1,109	(D)	(D)
2872	Fertilizers, mixing only.....	6	4	178	674	144	327	466	2,108	8,563	183	...	...
288	Vegetables and animal oils...	19	10	802	3,172	509	1,071	1,703	7,348	(2)	1,457	(D)	(D)
2883	Soybean oil mills.....	5	5	344	1,539	187	416	676	4,902	35,965	1,041	(D)	(D)

See footnotes at end of table.



Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manufacture	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
289	Chemicals and products—Con.	114	32	2,164	8,834	1,332	2,490	3,904	23,924	(2)	1,160	2,246	17,059
2891	Chemicals and products, n.e.c.	8	5	169	815	113	240	405	1,405	2,796	(D)	177	1,282
2893	Printing ink.....	30	7	617	1,911	425	666	822	5,869	8,156	42	917	6,998
2894	Toilet preparations.....	8	3	119	505	69	146	211	1,031	2,777	105	(D)	(D)
2896	Glue and gelatin.....	12	4	270	1,160	156	296	586	2,708	3,392	529	301	2,128
2897	Compressed and liquefied gases.	9	3	178	802	122	174	267	1,637	5,451	75	(D)	(D)
2899	Insecticides and fungicides....	47	10	808	3,640	445	966	1,612	11,271	22,778	(D)	784	6,253
29	Chemical products, n.e.c.....	39	18	3,227	15,888	2,401	4,817	10,722	34,575	(2)	3,694	2,459	14,095
295	Petroleum and coal products	16	10	679	2,991	543	1,143	2,226	6,789	(2)	709	681	5,127
2951	Paving and roofing materials.	9	5	188	875	138	256	543	1,997	4,134	307	127	885
2952	Paving mixtures and blocks.....	7	5	490	2,115	405	887	1,682	4,792	11,886	402	554	4,242
299	Roofing felts and coatings.....	21	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2992	Petroleum and coal products, n.e.c.....	16	4	366	1,831	244	471	804	6,818	15,180	(D)	(D)	(D)
30	Lubricants, n.e.c.....	22	6	805	2,684	640	1,265	2,056	5,771	10,705	88	(D)	(D)
3099	Rubber products.....	22	6	805	2,684	640	1,265	2,056	5,771	10,705	88	(D)	(D)
31	Rubber industries, n.e.c.....	178	139	36,719	91,910	33,658	59,068	77,479	171,449	(2)	2,047	42,545	117,333
314	Leather and leather goods..	99	90	30,730	74,724	28,392	49,122	64,546	143,340	(2)	803	35,487	98,266
3141	Footwear, except rubber.....	96	87	30,282	73,715	27,988	48,422	63,722	141,520	250,807	791	(D)	(D)
3142	House slippers.....	3	3	448	1,009	403	700	823	1,819	3,283	12	(D)	(D)
317	Purses and small leather goods.....	17	11	1,559	4,410	1,371	2,507	2,940	7,400	(2)	89	1,080	4,021
32	Stone, clay and glass products.....	267	81	14,495	62,859	11,874	24,974	48,327	125,287	(2)	7,851	14,999	80,586
3231	Products of purchased glass..	25	6	451	1,916	337	636	1,177	3,556	5,301	47	281	1,452
3241	Cement, hydraulic.....	6	5	1,716	6,936	1,479	3,038	5,688	21,066	31,485	2,131	1,647	9,541
325	Structural clay products.....	29	24	4,460	18,196	3,502	7,293	12,993	29,725	(2)	1,708	5,402	22,930
3251	Brick and hollow tile.....	10	8	363	1,394	324	689	1,175	2,221	2,878	508	451	1,794
3255	Clay refractories.....	14	12	3,844	15,933	2,946	6,089	11,045	25,756	36,765	1,121	4,530	19,644
326	Pottery and related products.	12	4	187	494	166	376	399	638	(2)	72	191	451
327	Concrete and plaster products	133	23	2,532	8,898	2,095	4,168	6,575	17,031	(2)	1,429	2,604	11,929
3271	Concrete products.....	118	16	1,176	3,862	930	1,823	2,614	7,442	13,541	708	1,042	4,359
329	Nonmetallic mineral products, n.e.c.....	42	12	1,651	6,938	1,377	2,814	5,221	16,664	(2)	411	(D)	(D)
3295	Minerals: ground or treated...	8	4	211	905	179	414	703	3,862	5,995	137	(D)	(D)
33	Primary metal industries...	113	63	12,721	53,621	10,948	21,112	41,886	87,608	(2)	4,893	13,335	59,673
332	Iron and steel foundries.....	44	30	4,904	18,812	4,262	7,865	14,746	27,241	(2)	607	5,966	23,627
3321	Gray-iron foundries.....	35	22	2,710	9,726	2,383	4,290	7,810	14,312	22,146	279	3,409	14,257
3341	Secondary nonferrous metals...	8	3	205	747	143	285	451	1,033	6,221	78	213	1,029
34	Fabricated metal products..	511	185	24,652	104,218	19,367	38,620	71,714	181,838	(4)	8,753	22,665	112,329
3411	Tin cans and other tinware...	6	5	2,449	10,640	2,143	4,393	8,846	22,880	68,485	2,952	1,539	6,194
342	Cutlery, tools, and hardware.	46	24	2,589	10,628	2,227	4,317	7,903	16,332	(2)	188	2,374	11,330
3422	Edge tools.....	19	15	1,558	6,592	1,340	2,640	5,113	10,525	15,915	94	939	4,372
3429	Hardware, n.e.c.....	11	5	702	2,741	603	1,176	1,988	4,036	6,573	73	884	2,994
343	Heating and plumbing equipment.....	32	16	2,381	9,216	1,614	3,199	6,042	14,839	(2)	538	3,857	17,578
3431	Plumbing fixtures and fittings.	7	4	338	1,328	281	579	967	2,137	3,837	24	(D)	(D)
3439	Heating & cooking equip., n.e.c.	25	12	2,042	7,887	1,333	2,619	5,075	12,702	26,408	514	3,424	15,790
344	Structural metal products....	181	61	8,534	39,251	6,403	13,205	25,903	65,669	(2)	2,988	6,979	36,653
3441	Structural & ornamental work...	62	24	2,903	13,415	2,231	4,732	8,833	24,300	52,157	985	1,350	9,836
3442	Metal doors, sash and trim....	30	9	1,303	5,757	988	2,010	3,773	8,778	16,109	489	(D)	(D)
3443	Boiler shop products.....	32	13	1,904	8,768	1,536	3,017	6,159	17,083	28,757	612	3,846	19,091
3444	Sheet-metal work.....	57	15	2,423	11,310	1,647	3,444	7,137	15,507	35,509	901	(D)	(D)
346	Metal stamping and coating...	109	31	2,527	10,001	2,084	4,009	6,884	15,827	(2)	688	2,362	9,444
3463	Metal stampings.....	41	17	1,589	6,467	1,300	2,450	4,395	10,441	18,246	480	1,810	7,324
3465	Enameling and lacquering.....	13	2	275	1,006	212	446	619	1,562	2,124	25	(D)	(D)
3468	Plating and polishing.....	50	11	605	2,243	522	1,022	1,696	3,350	4,669	135	446	1,716
3471	Lighting fixtures.....	39	13	1,455	5,311	1,160	2,315	3,335	12,548	22,683	144	1,328	7,585
348	Fabricated wire products.....	38	21	2,445	10,245	1,916	3,665	6,725	18,700	33,491	821	2,514	14,638
3489	Wirework, n.e.c.....	38	21	2,445	10,245	1,916	3,665	6,725	18,700	33,491	821	(D)	(D)
349	Metal products, n.e.c.....	60	14	2,270	8,925	1,818	3,516	6,073	15,039	(2)	431	1,712	8,907
3495	Screw machine products.....	28	6	673	2,790	533	1,061	1,827	3,901	6,940	122	343	1,511
3499	Fabricated metal prod., n.e.c..	22	1	152	588	116	218	378	1,116	2,265	94	(D)	(D)

See footnotes at end of table.



## MANUFACTURES—AREA STATISTICS

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
35	Machinery, except electrical.....	512	140	23,469	101,146	17,550	33,958	68,052	171,841	(2)	7,204	24,267	126,977
352	Tractors and farm machinery..	28	7	1,110	4,286	793	1,469	2,613	10,317	(2)	786	826	5,404
353	Construction and mining machinery.....	20	13	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3531	Construction & mining mach....	16	11	805	3,429	553	1,076	1,982	6,015	11,979	55	492	2,978
354	Metalworking machinery.....	121	22	1,791	7,728	1,466	2,869	5,757	11,183	(2)	615	1,816	9,866
3541	Machine tools.....	12	2	151	549	126	195	406	855	1,210	66	(D)	(D)
3542	Metalworking machinery.....	10	5	528	2,104	420	796	1,496	2,947	5,976	72	(D)	(D)
3544	Special dies and tools.....	91	13	956	4,291	804	1,629	3,439	6,271	8,403	458	652	2,849
3545	Metalworking mach. attachments.	8	2	155	784	115	249	414	1,109	1,665	19		
355	Special-industry machinery, n.e.c.....	52	13	1,606	7,022	1,021	2,021	4,059	10,988	(2)	170	3,099	15,515
3551	Food-products machinery.....	19	4	797	3,880	496	1,036	2,198	5,343	8,261	69	1,703	8,803
3559	Special-industry mach., n.e.c..	14	6	603	2,338	378	696	1,350	4,392	6,045	61	956	4,164
356	General industrial machinery.	58	22	1,766	7,642	1,341	2,650	4,879	16,645	(2)	484	2,389	15,508
3561	Pumps and compressors.....	11	4	388	1,579	294	579	1,113	5,744	13,948	116	1,204	8,283
3563	Conveyors.....	12	5	564	2,820	373	738	1,467	5,216	8,144	107	436	3,429
3564	Blowers and fans.....	7	5	398	1,414	339	662	1,047	2,519	5,942	52	227	1,254
3566	Power-transmission equipment...	11	6	230	1,040	188	366	692	1,974	3,176	108	255	1,278
357	Office and store machines....	6	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3579	Office & store machines, n.e.c.	5	3	1,182	5,537	946	1,650	3,180	7,737	13,808	672	(D)	(D)
358	Service and household machines.....	43	26	6,525	27,789	4,671	9,499	17,572	47,793	(2)	1,062	4,946	27,577
3582	Laundry & dry-cleaning mach....	3	1	100	365	71	132	235	670	1,042	6	(D)	(D)
3585	Refrigeration machinery.....	33	21	5,268	22,276	3,833	7,840	14,380	37,446	(2)	(D)	3,531	19,858
359	Miscellaneous machine parts..	182	32	7,566	32,928	5,938	11,200	24,702	52,633	(2)	3,163	8,769	41,102
3591	Valves & fittings, exc. plbg...	8	5	640	2,834	488	928	1,768	5,185	8,165	186	(D)	(D)
3592	Fabricated pipe and fittings...	6	3	766	3,797	543	1,118	2,444	7,364	11,099	157	(D)	(D)
3594	Industrial patterns and molds..	30	1	196	928	165	323	756	1,445	1,753	55	(D)	(D)
3599	Machine shops.....	138	23	5,963	25,369	4,741	8,830	19,733	38,638	65,300	2,763	7,141	31,778
36	Electrical machinery.....	115	58	22,260	93,415	16,426	32,087	61,531	153,455	(2)	7,342	17,212	84,580
361	Electrical industrial apparatus.....	54	32	14,456	63,280	10,728	21,180	42,063	105,183	(2)	5,624	12,197	59,694
3611	Wiring devices and supplies....	15	8	1,036	4,035	752	1,461	2,548	9,660	16,855	419	1,119	7,421
3614	Motors and generators.....	9	8	7,480	32,114	5,746	11,091	22,873	44,854	76,209	3,155	7,575	31,398
3616	Electrical control apparatus...	11	8	3,002	12,748	2,209	4,760	7,610	22,414	37,297	487	(D)	(D)
3621	Electrical appliances.....	12	7	1,554	5,288	1,215	2,475	3,386	7,942	16,010	330	(D)	(D)
366	Communication equipment.....	24	10	4,048	17,486	2,637	5,029	10,237	22,692	(2)	937	(D)	(D)
3661	Radios and related products....	17	8	3,983	17,272	2,583	4,927	10,061	22,422	(2)	930	(D)	(D)
369	Electrical products, n.e.c....	16	4	1,004	2,807	837	1,478	2,141	3,926	(2)	85	639	3,109
37	Transportation equipment...	105	46	45,696	212,879	34,065	69,998	148,131	488,533	(2)	14,978	23,594	155,566
371	Motor vehicles and equipment.	72	28	18,038	85,422	14,716	30,468	65,597	248,502	(2)	9,549	15,796	126,445
3713	Truck and bus bodies.....	21	7	1,016	4,105	813	1,597	2,882	6,738	11,064	128	1,232	5,280
3715	Truck trailers.....	8	6	2,236	11,443	1,455	2,860	5,941	14,017	36,877	340	391	1,813
3716	Automobile trailers.....	11	3	207	676	177	335	538	1,140	3,716	12	(D)	(D)
3717	Motor vehicles and parts.....	32	12	14,579	69,197	12,270	25,676	56,235	226,606	(2)	9,068	(D)	(D)
372	Aircraft and parts.....	15	10	25,405	118,523	17,488	35,806	75,806	226,235	(2)	3,544	(D)	(D)
373	Ships and boats.....	11	4	770	3,308	688	1,502	2,690	5,083	(2)	...	(D)	(D)
38	Instruments and related products.....	65	26	3,042	12,310	2,145	4,242	7,321	23,468	(2)	731	2,899	12,816
3821	Mech. measuring instruments..	10	5	1,598	7,576	959	1,938	3,935	15,168	21,407	261	(D)	(D)
384	Medical equipment and supplies.....	32	10	759	2,323	592	1,090	1,540	3,525	(2)	92	588	2,035
3842	Surgical appliances & supplies.	21	8	623	1,767	497	909	1,224	2,970	6,335	61	522	1,763
3851	Ophthalmic goods.....	7	5	349	1,122	312	603	901	1,827	2,639	74	312	974
3861	Photographic equipment.....	7	3	158	577	130	263	398	1,890	2,974	243	420	1,980
39	Miscellaneous manufactures <sup>5</sup>	322	111	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	8,435	32,608
391	Jewelry and silverware.....	13	4	227	888	180	342	609	1,158	(2)	8	299	1,130
394	Toys and sporting goods.....	59	23	2,474	7,020	2,125	3,761	5,419	11,208	(2)	276	1,906	6,744
3941	Games and toys, n.e.c.....	23	6	533	1,506	429	626	1,010	2,159	4,027	(D)	(D)	(D)
3949	Sporting and athletic goods....	31	14	1,425	3,803	1,261	2,276	3,159	6,154	13,958	85	1,044	3,755
395	Office supplies.....	21	8	775	2,170	434	893	1,059	2,901	(2)	52	(D)	(D)

See footnotes at end of table.

Table 3.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establish- ments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
398 399	Misc. manufactures—Con. Miscellaneous manufactures <sup>2</sup> ..	158	56	16,956	68,307	13,542	25,964	52,385	105,336	...	4,474	4,328	18,050
3988	Morticians' goods.....	32	10	643	2,146	448	878	1,146	3,161	5,474	73	1,651	4,872
3993	Signs and advertising displays.	66	20	1,217	4,498	946	1,868	2,998	7,072	11,442	184	1,210	4,969
3999	Miscellaneous products, n.e.c..	20	6	374	755	313	423	520	1,160	1,962	44	179	1,023
1900	Ordnance and accessories.....	10	8	13,293	56,111	10,597	20,473	44,140	85,149	( <sup>2</sup> )	(D)	(D)	(D)

Note: Detailed figures may not add to the totals because of independent rounding.

(D) Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industries (4-digit) and industry groups (3-digit) are not shown. Industries and industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "all industries" line.

<sup>2</sup>The total value of shipments figures for industry groups and a few individual industries have not been published due to the extensive and unmeasurable duplication arising from shipments from one establishment to another in the same industry classification. (See Introduction.)

<sup>3</sup>The 1954 and 1947 "all industries" totals are not strictly comparable because of differences in scope between the two years in major groups 20 and 24 (see footnote 4).

<sup>4</sup>Comparable data for major groups 20 and 24 are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude establishments in S.I.C. Industry 2411, Logging Camps and Contractors, which are included in the scope of the 1954 Census; the 1947 Census also excludes plants processing and distributing fluid milk which in 1954 were classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
20	Food and kindred products except subgroup 202, Dairy products.....	43,923	386,768	47,358	312,926
24	Lumber and wood products except Industry 2411, Logging camps and contractors.....	6,423	28,906	7,180	24,087

<sup>5</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories". (Establishments which are Government-owned and operated are not included.)



Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947  
(For explanation of column captions see Introduction)

Code	Industry group	Establish- ments, number	1954							1947	
			All employees		Production workers			Value added by manuf. acture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manuf. acture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours ((1,000)	Wages (\$1,000)				
KANSAS CITY (MISSOURI) KANSAS CITY (KANSAS) STANDARD METROPOLITAN AREA (Consists of Clay and Jackson Counties, Missouri; Johnson and Wyandotte Counties, Kansas)											
	All industries, total <sup>1</sup> ...	1,513	115,132	497,764	84,903	168,431	336,026	1,039,592	45,821	278,686	2,469,807
20	Food and kindred products...	197	18,819	77,819	12,267	25,158	46,624	152,218	8,383	( <sup>3</sup> )	( <sup>3</sup> )
201	Meat products.....	32	6,857	29,547	5,255	11,055	21,653	42,344	1,858	10,086	39,604
202	Dairy products.....	30	2,337	10,763	865	1,876	3,332	19,781	1,459	( <sup>3</sup> )	( <sup>3</sup> )
204	Grain mill products.....	34	2,452	10,286	1,664	3,603	6,826	27,040	1,834	2,795	31,773
205	Bakery products.....	29	3,695	14,163	2,159	4,106	7,152	30,181	1,504	3,591	18,018
208	Beverages.....	13	722	2,735	372	736	1,246	5,212	258	948	8,154
209	Miscellaneous foods.....	42	2,181	8,689	1,599	3,075	5,498	25,150	1,319	2,168	22,273
22	Textile mill products.....	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	138	467
23	Apparel & related products..	143	8,798	27,642	7,374	13,757	19,033	40,421	1,523	8,254	30,929
231	Men's & boys' suits & coats....	5	683	1,800	626	1,160	1,531	2,612	31	232	733
233	Women's & misses' outerwear....	52	4,634	15,808	3,897	7,203	10,735	25,914	175	3,343	14,159
236	Children's outerwear.....	7	211	471	180	289	318	791	8	167	467
239	Fabricated textiles, n.e.c.....	51	1,695	5,036	1,394	2,740	3,527	6,386	1,186	1,460	5,878
24	Lumber and wood products....	44	980	3,836	765	1,549	2,608	6,372	80	1,137	5,349
242	Lumber and basic products.....	7	176	846	111	254	455	1,324	4	189	779
243	Millwork & related products....	18	507	1,975	395	806	1,363	3,082	31	365	1,899
244	Wooden containers.....	7	117	356	108	197	303	815	8	346	1,526
25	Furniture and fixtures.....	62	1,448	5,433	1,166	2,213	3,974	10,626	199	1,296	6,024
251	Household furniture.....	34	843	3,149	691	1,363	2,388	7,036	106	582	3,219
254	Partitions and fixtures.....	17	187	702	153	249	512	1,138	26	400	1,422
26	Pulp, paper and products....	38	3,485	13,921	2,858	5,822	10,066	26,036	1,252	2,676	18,567
261	Pulp, paper and board.....	3	178	783	155	330	652	1,942	111	(D)	(D)
265	Envelopes.....	6	509	2,114	437	921	1,481	3,682	81	379	2,548
269	Pulp, paper & products, n.e.c..	12	1,188	4,467	995	2,004	3,455	9,808	633	561	5,108
27	Printing and publishing.....	272	8,569	34,740	5,529	10,229	21,025	62,192	6,125	6,995	41,543
271	Newspapers.....	34	2,224	9,528	1,390	2,516	6,020	17,873	154	1,937	12,751
272	Periodicals.....	22	638	2,203	139	198	523	5,106	119	704	3,471
273	Books.....	16	245	815	124	177	293	2,252	25	(D)	(D)
275	Commercial printing.....	101	1,470	6,467	1,170	2,384	4,863	9,415	631	1,513	7,036
276	Lithographing.....	44	869	4,228	697	1,420	3,113	6,380	694	423	2,514
278	Bookbinding & related inds....	11	115	418	104	183	325	657	70	(D)	(D)
279	Printing trade service.....	31	386	1,897	283	572	1,294	2,714	42	394	2,178
28	Chemicals and products.....	124	9,137	40,319	6,593	11,444	26,587	101,027	3,734	4,592	61,095
283	Drugs and medicines.....	25	714	2,673	472	872	1,445	4,715	231	(D)	(D)
284	Soap and related products.....	14	1,710	7,961	1,198	1,048	5,277	44,201	1,081	(D)	(D)
287	Fertilizers.....	5	147	501	125	253	395	1,429	91	(D)	(D)
289	Chemical products, n.e.c.....	46	926	3,866	575	1,086	1,787	9,512	387	895	7,938
29	Petroleum and coal products..	15	3,040	(D)	2,155	(D)	(D)	(D)	(D)	2,864	18,682
295	Paving and roofing materials...	5	384	1,615	316	680	1,310	3,352	385	(D)	(D)
299	Petroleum & coal prod., n.e.c..	7	314	1,165	178	347	544	2,051	53	373	2,871
30	Rubber products.....	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	38	(D)
31	Leather and leather goods...	12	934	3,052	800	1,590	2,281	4,785	88	792	2,535
316	Luggage.....	6	815	2,703	705	1,438	2,044	4,286	84	683	2,196
32	Stone, clay & glass products	58	2,948	12,544	2,279	4,901	9,690	30,159	3,140	1,945	7,824
327	Concrete & plaster products....	32	2,185	9,436	1,673	3,597	7,500	22,620	1,470	1,252	3,894
33	Primary metal industries....	39	6,209	28,178	5,317	10,602	21,964	51,206	3,152	5,760	24,961
332	Iron and steel foundries.....	10	562	2,058	470	1,035	1,539	3,331	96	619	2,717
34	Fabricated metal products...	161	6,783	28,330	5,159	10,178	19,192	46,484	1,929	7,044	33,296
343	Heating & plumbing equipment...	12	320	1,283	252	515	881	2,186	44	603	2,575
344	Structural metal products.....	62	4,151	18,563	2,942	6,063	11,885	28,978	1,192	4,039	18,390
346	Metal stamping and coating....	35	566	2,283	449	873	1,520	3,497	164	(D)	(D)
348	Fabricated wire products.....	15	243	610	209	325	462	1,098	40	(D)	(D)
35	Machinery, exc. electrical...	136	4,680	20,441	3,272	6,494	12,625	35,284	1,603	3,616	22,764
352	Tractors and farm machinery....	17	610	2,474	418	786	1,434	6,601	295	(D)	(D)
353	Construction & mining mach....	5	208	896	133	274	528	1,939	2	(D)	(D)
354	Metalworking machinery.....	29	199	841	164	331	649	1,275	143	(D)	(D)
355	Special-industry mach., n.e.c..	20	433	1,858	246	515	926	3,557	96	444	3,081
356	General industrial machinery...	13	1,221	5,664	905	1,901	3,847	6,762	658	393	2,068
359	Miscellaneous mach. parts.....	40	273	1,006	236	441	832	1,689	93	237	1,672
36	Electrical machinery.....	47	4,620	20,071	3,061	5,890	12,000	26,287	1,268	1,031	4,551
361	Elec. industrial apparatus.....	14	231	890	177	370	654	1,075	219	305	1,643
366	Communication equipment.....	21	4,064	17,811	2,623	5,012	10,310	23,056	963	(D)	(D)
369	Electrical products, n.e.c.....	7	183	894	151	290	708	1,126	31	119	969

See footnotes at end of table.



Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Code	Industry group	Establish- ments, number	1954						1947		
			All employees		Production workers			Value added by manufacture	Capital expendi- tures, new	All employees, number	Value added by manufacture
			Number	Payroll (\$1,000)	Number	Man-hours ((1,000)	Wages (\$1,000)				
37	Transportation equipment....	38	27,300	136,076	20,305	43,127	95,189	368,580	7,511	7,165	(D)
371	Motor vehicles and equipment...	29	10,417	54,564	8,443	18,401	41,394	165,801	6,261	(D)	(D)
372	Aircraft and parts.....	7	16,878	81,496	11,857	24,716	53,781	202,757	1,248	(D)	(D)
38	Instruments & related prod...	19	500	1,701	429	873	1,301	2,652	153	468	(D)
384	Medical equip. and supplies....	10	157	443	132	243	329	687	18	(D)	(D)
385	Ophthalmic goods.....	3	213	703	183	358	544	1,133	55	(D)	(D)
39	Miscellaneous manufactures <sup>4</sup> .	96	6,738	28,011	5,452	10,094	21,176	36,234	2,634	1,945	(D)
394	Toys and sporting goods.....	20	239	656	206	383	539	1,035	31	(D)	(D)
397	Plastics products, n.e.c.....	22	448	1,658	388	784	1,240	3,053	240	(D)	(D)
398	Miscellaneous manufactures.....	43	5,864	25,132	4,728	8,650	19,016	31,479	2,335	(D)	(D)
ST. LOUIS STANDARD METROPOLITAN AREA (Consists of St. Louis City, St. Charles and St. Louis Counties, Missouri; Madison and St. Clair Counties, Ill.)											
	All industries, total <sup>1</sup> ...	3,128	251,766	1,060,335	191,375	373,705	725,308	2,053,083	131,184	224,481	21,295,842
20	Food and kindred products...	428	34,201	154,063	23,610	47,724	98,660	315,976	14,320	(3)	(3)
201	Meat products.....	64	11,670	50,969	8,823	18,119	36,744	63,544	2,299	11,820	49,890
202	Dairy products.....	68	3,701	17,524	1,407	3,101	5,388	29,145	1,918	(3)	(3)
203	Canned and frozen foods.....	18	424	1,224	366	676	824	1,950	142	464	2,683
204	Grain mill products.....	36	1,860	7,928	1,281	2,603	4,819	22,081	589	1,749	19,229
205	Bakery products.....	83	5,222	19,983	3,328	6,238	10,683	35,235	1,085	4,903	21,725
208	Beverages.....	63	7,624	41,600	5,729	11,676	31,046	118,913	5,695	7,354	79,680
209	Miscellaneous foods.....	83	3,167	12,905	2,258	4,443	7,919	41,283	2,494	4,615	38,023
21	Tobacco manufactures.....	10	675	(D)	568	(D)	(D)	(D)	(D)	1,683	(D)
22	Textile mill products.....	25	2,507	7,501	2,157	4,150	5,554	12,505	211	2,418	8,516
23	Apparel & related products..	290	14,992	40,744	13,122	23,490	30,442	69,550	527	19,116	76,547
231	Men's & boys' suits & coats....	14	2,052	6,461	1,844	3,349	5,040	11,723	36	(D)	(D)
232	Men's & boys' furnishings....	43	2,691	7,292	2,304	4,090	5,061	11,688	123	3,055	10,524
233	Women's & misses' outerwear....	101	6,236	15,713	5,606	10,032	12,547	29,051	156	8,547	33,429
235	Millinery.....	15	291	771	238	426	569	1,067	3	(D)	(D)
236	Children's outerwear.....	9	393	924	337	581	658	1,656	21	189	389
238	Miscellaneous apparel.....	12	396	1,004	359	611	819	1,640	29	1,121	4,720
239	Fabricated textiles, n.e.c.....	85	2,110	6,353	1,735	3,138	4,269	9,275	100	2,660	9,425
24	Lumber and wood products....	106	1,794	6,577	1,477	2,939	4,632	9,212	212	2,947	11,465
242	Lumber and basic products.....	13	138	304	129	237	265	629	17	158	259
243	Millwork & related products....	49	820	3,371	630	1,282	2,225	4,211	102	1,399	4,858
244	Wooden containers.....	10	223	859	183	355	577	1,127	41	753	2,341
25	Furniture and fixtures.....	108	5,155	19,481	4,270	8,424	13,948	28,682	612	5,295	20,612
251	Household furniture.....	39	2,130	7,225	1,798	3,562	5,423	11,460	231	2,955	10,443
254	Partitions and fixtures.....	25	944	3,835	760	1,444	2,785	4,975	77	661	2,763
256	Screens, shades and blinds.....	20	413	1,697	411	857	1,083	3,009	53	555	2,463
259	Furniture and fixtures, n.e.c....	10	690	2,732	554	1,075	1,969	3,195	86	(D)	(D)
26	Pulp, paper and products....	83	8,300	32,519	6,655	13,372	22,325	53,336	4,870	7,155	35,395
261	Pulp, paper and board.....	6	1,255	5,929	1,020	2,090	4,123	11,853	863	(D)	(D)
265	Envelopes.....	5	766	3,225	567	1,165	1,914	4,723	107	717	4,051
266	Paper bags.....	7	1,504	5,338	1,185	2,284	3,474	7,107	235	(D)	(D)
267	Paperboard containers.....	43	4,240	16,129	3,460	7,005	11,489	26,109	3,255	3,720	16,270
27	Printing and publishing.....	461	12,471	59,160	8,474	15,687	36,230	87,636	3,687	11,713	65,322
271	Newspapers.....	55	3,324	18,700	1,956	3,565	10,807	28,442	370	3,453	25,467
272	Periodicals.....	25	747	3,038	316	664	1,106	5,461	203	845	4,582
273	Books.....	12	720	2,936	407	810	1,623	4,208	117	502	3,353
275	Commercial printing.....	199	2,093	13,464	2,313	4,075	8,866	18,602	590	3,796	17,185
276	Lithographing.....	69	2,832	13,555	2,141	4,114	8,609	19,906	1,809	1,551	7,011
278	Bookbinding & related inds.....	37	709	2,372	611	1,098	1,826	4,160	186	(D)	(D)
279	Printing trade services.....	55	925	4,710	699	1,302	3,324	6,187	387	778	4,265
28	Chemicals and products.....	228	18,932	87,857	12,299	24,632	51,123	230,842	19,188	16,984	127,531
281	Inorganic chemicals.....	7	2,016	9,236	1,521	2,978	6,593	15,863	4,629	(D)	(D)
282	Organic chemicals.....	6	4,885	24,441	3,327	6,737	15,315	57,021	9,481	(D)	(D)
283	Drugs and medicines.....	38	4,551	20,761	2,535	5,233	10,272	50,904	1,290	3,893	35,145
284	Soap and related products.....	45	1,411	6,559	858	1,668	3,458	31,373	616	889	10,229
285	Paints and allied products....	47	3,401	16,127	2,233	4,423	9,308	48,129	903	3,364	27,601
287	Fertilizers.....	9	941	3,785	737	1,511	2,742	8,812	1,194	931	6,537
288	Vegetable and animal oils.....	7	306	1,255	208	432	797	2,285	224	(D)	(D)
289	Chemical products, n.e.c.....	69	1,418	5,690	876	1,646	2,636	16,453	849	1,380	9,574
29	Petroleum and coal products.	36	8,065	41,814	6,073	11,732	29,121	116,030	26,278	7,204	67,591
291	Petroleum refining.....	4	6,372	34,024	4,735	9,045	23,895	100,222	24,701	6,050	58,899
299	Petroleum & coal prod., n.e.c..	18	595	2,847	456	958	1,673	8,828	112	(D)	(D)
30	Rubber products.....	13	478	(D)	337	(D)	(D)	(D)	(D)	826	4,635

See footnotes at end of table.

## MANUFACTURES—AREA STATISTICS

Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Code	Industry group	Establishments, number	1954							1947	
			All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours ((1,000)	Wages (\$1,000)				
31	Leather and leather goods...	89	11,045	32,065	9,752	17,259	24,501	47,621	1,556	18,286	52,381
313	Footwear cut stock.....	25	2,085	5,977	1,848	3,468	4,702	7,444	1,326	(D)	(D)
314	Footwear, except rubber.....	31	6,600	18,960	5,856	9,980	14,694	28,935	138	11,748	33,408
317	Purses & small leather goods...	15	1,307	3,775	1,132	2,061	2,420	6,271	71	(D)	(D)
32	Stone, clay, & glass prod...	127	9,088	36,924	7,811	15,897	29,779	89,954	4,120	9,313	46,186
323	Products of purchased glass....	17	161	715	117	210	468	1,326	36	214	1,159
325	Structural clay products.....	15	1,768	7,333	1,442	3,115	5,659	10,107	740	2,125	9,879
327	Concrete & plaster products....	52	654	2,458	504	1,012	1,570	5,033	430	639	2,834
329	Nonmet. mineral prod., n.e.c...	30	1,509	6,342	1,260	2,545	4,816	13,652	332	1,360	7,988
33	Primary metal industries....	89	20,642	93,059	16,739	32,412	68,609	164,991	13,963	23,923	118,691
332	Iron and steel foundries.....	36	7,707	32,304	6,363	11,259	23,563	48,222	1,617	11,703	49,617
336	Nonferrous foundries.....	28	1,215	4,687	1,057	1,973	3,667	7,380	222	1,322	6,888
34	Fabricated metal products...	361	20,047	84,431	16,046	31,740	59,255	147,808	7,208	18,921	91,146
342	Cutlery, tools and hardware....	36	2,026	8,690	1,721	3,509	6,372	13,715	165	1,866	7,967
343	Heating & plumbing equipment...	27	2,849	11,076	2,061	3,879	7,637	17,736	562	4,823	22,126
344	Structural & ornamental work...	124	5,193	24,413	4,078	8,355	16,641	40,960	2,010	3,870	21,407
346	Metal stamping and coating....	76	2,793	10,770	2,341	4,567	7,780	16,062	731	2,974	11,270
348	Fabricated wire products.....	21	1,658	7,031	1,307	2,467	4,672	13,575	602	1,794	10,934
349	Metal products, n.e.c.....	50	2,569	10,126	2,056	3,932	6,918	18,016	467	1,394	7,010
35	Machinery, exc. electrical...	347	18,958	83,607	14,325	27,714	57,640	138,979	5,859	20,898	106,545
353	Construction & mining mach....	9	646	2,992	447	850	1,692	7,011	133	672	5,107
354	Metalworking machinery.....	93	1,470	6,706	1,217	2,373	5,293	9,353	495	1,472	8,547
355	Special-industry mach., n.e.c...	28	1,028	4,712	668	1,335	2,857	7,305	47	2,573	12,665
356	General industrial machinery...	42	1,415	6,309	1,046	2,068	3,892	14,482	391	1,913	13,279
358	Service & household machines...	30	5,088	21,318	3,696	7,600	13,959	36,207	839	3,503	19,082
359	Miscellaneous mach. parts.....	131	7,414	33,064	5,748	10,811	24,500	52,507	3,256	9,385	42,377
36	Electrical machinery.....	60	15,884	68,366	11,910	23,355	45,981	118,696	5,611	14,719	73,506
361	Elec. industrial apparatus....	37	13,846	60,501	10,317	20,320	40,542	100,162	5,119	11,534	55,436
362	Electrical appliances.....	6	952	3,647	662	1,305	1,985	5,496	125	1,739	8,404
37	Transportation equipment....	48	28,212	131,506	21,057	42,972	92,400	270,077	19,609	18,579	112,605
371	Motor vehicles and equipment...	34	11,693	54,548	9,792	20,158	43,738	160,960	16,185	(D)	(D)
38	Instruments & related prod...	37	2,283	9,717	1,466	2,904	5,191	17,263	500	(D)	(D)
382	Mech. measuring instruments....	7	1,501	7,110	854	1,739	3,477	12,379	181	(D)	(D)
384	Medical equip. and supplies....	16	551	1,772	423	787	1,145	2,562	75	440	1,419
39	Miscellaneous manufactures <sup>4</sup> ...	182	18,030	66,558	13,221	25,567	47,056	124,346	2,731	9,346	37,797
391	Jewelry and silverware.....	8	122	569	101	175	378	771	...	156	745
394	Toys and sporting goods.....	33	2,011	6,102	1,699	2,989	4,633	9,518	214	1,619	6,243
395	Office supplies.....	16	692	1,912	380	785	898	2,655	30	1,002	3,451
397	Plastics products, n.e.c.....	33	912	2,603	820	1,499	2,062	4,621	152	291	1,159
398	Miscellaneous manufactures <sup>4</sup> ....	81	13,972	54,370	9,944	19,587	38,300	105,152	2,299	5,898	24,817

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industry groups (3-digit) are not shown. Industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "All industries" line.<sup>2</sup>The 1954 and 1947 "All industries" totals are not strictly comparable because of differences in scope between the two years in Major group 20 (see footnote 3).<sup>3</sup>Comparable data for Major group 20 are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude plants processing and distributing fluid milk which in 1954 were classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
20	Food and kindred products except Subgroup 202, Dairy Products:				
	Kansas City.....	16,482	132,437	20,311	122,995
	St. Louis.....	30,500	286,831	32,320	217,467

<sup>4</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)



Table 6.—GENERAL STATISTICS FOR PRINCIPAL INDUSTRIAL COUNTIES, BY MAJOR INDUSTRY GROUP: 1954 AND 1947

(Principal industrial counties include all counties with 20,000 or more manufacturing employees. For explanation of column captions see Introduction)

Code	Major industry group	1954								1947	
		Establish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendit- ures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
		JACKSON COUNTY									
	All industries, total <sup>1</sup> .....	1,146	68,137	285,320	49,567	96,925	185,350	555,946	31,672	<sup>2</sup> 49,946	<sup>2</sup> 279,899
20	Food and kindred products.....	127	8,161	33,347	4,435	8,784	15,280	66,407	4,564	8,042	58,434
23	Apparel and related products...	132	8,336	26,480	6,990	13,015	18,148	38,740	1,493	7,306	26,668
24	Lumber and wood products.....	27	555	2,253	413	805	1,488	3,909	58	850	4,194
25	Furniture and fixtures.....	52	901	3,375	725	1,348	2,431	5,798	125	888	3,738
26	Pulp, paper and products.....	23	1,623	6,251	1,324	2,563	4,190	11,042	440	875	4,498
27	Printing and publishing.....	224	7,645	31,446	4,811	8,933	18,678	55,209	5,124	6,330	38,409
28	Chemicals and products.....	78	1,528	6,199	906	1,736	2,834	15,994	605	2,140	16,233
31	Leather and leather goods.....	8	821	2,716	711	1,447	2,056	4,324	84	713	(D)
32	Stone, clay, & glass products...	37	733	2,899	574	1,200	2,017	5,520	1,544	1,019	4,408
33	Primary metal industries.....	31	5,824	26,887	4,982	9,978	20,965	48,081	2,985	5,316	22,615
34	Fabricated metal products.....	128	4,585	18,926	3,401	6,708	12,313	30,357	997	4,470	22,456
35	Machinery, except electrical...	104	3,019	12,892	2,043	3,943	7,511	23,472	880	3,062	18,935
36	Electrical machinery.....	39	4,141	18,170	2,687	5,166	10,824	22,294	1,108	838	2,443
37	Transportation equipment.....	28	11,366	55,028	8,504	18,021	38,054	166,138	6,283	4,488	(D)
		ST. LOUIS COUNTY									
	All industries, total <sup>1</sup> .....	419	35,678	160,712	25,588	51,348	104,889	326,687	11,012	<sup>2</sup> 10,347	<sup>2</sup> 58,596
20	Food and kindred products.....	34	336	1,080	261	529	788	1,906	216	} (NA)	} (NA)
25	Furniture and fixtures.....	25	468	2,039	478	955	1,469	3,447	81		
26	Pulp, paper and products.....	8	1,039	4,007	857	1,766	3,047	6,411	241		
27	Printing and publishing.....	44	507	1,848	336	621	1,162	3,118	114		
28	Chemicals and products.....	27	2,607	11,820	1,714	3,343	7,326	54,415	1,195		
32	Stone, clay, & glass products...	33	1,563	6,468	1,312	2,657	4,844	15,146	963		
34	Fabricated metal products.....	59	2,830	12,681	2,238	4,648	8,486	19,841	1,502	} (NA)	} (NA)
35	Machinery, except electrical...	79	2,750	12,355	1,895	3,702	7,081	24,532	760		
36	Electrical machinery.....	13	3,817	17,489	2,588	5,163	11,336	30,264	2,037		
37	Transportation equipment.....	15	17,326	82,070	12,104	24,440	53,591	150,118	3,217		
39	Miscellaneous manufacturers <sup>3</sup> ...	22	743	2,262	427	858	1,167	3,122	66		
		ST. LOUIS CITY									
	All industries, total <sup>1</sup> .....	2,230	158,092	644,120	121,575	234,639	439,748	1,207,787	50,642	<sup>2</sup> 172,592	<sup>2</sup> 909,096
20	Food and kindred products.....	268	23,747	109,588	15,865	31,646	67,741	246,023	10,867	22,765	162,627
23	Apparel and related products...	264	13,725	37,965	11,940	21,314	28,068	64,806	483	17,640	72,995
24	Lumber and wood products.....	58	1,142	4,514	939	1,914	3,097	5,811	98	2,002	7,490
25	Furniture and fixtures.....	77	4,657	17,356	3,767	7,429	12,408	25,071	502	5,081	19,954
26	Pulp, paper and products.....	62	5,426	20,388	4,311	8,541	13,572	31,143	3,678	5,718	25,197
27	Printing and publishing.....	359	11,308	54,651	7,738	14,303	33,400	80,164	3,386	10,999	61,553
28	Chemicals and products.....	174	10,070	46,816	6,096	12,292	24,618	117,134	7,218	9,958	81,720
29	Petroleum and coal products...	18	988	4,704	728	1,537	2,909	7,529	786	(D)	(D)
31	Leather and leather goods.....	78	9,872	28,664	8,666	15,288	21,564	42,207	1,214	15,124	42,706
32	Stone, clay, & glass products...	63	3,333	13,235	2,762	5,700	10,360	27,502	1,437	4,212	22,532
33	Primary metal industries.....	45	5,083	20,259	4,351	8,099	15,585	31,203	784	6,818	32,233
34	Fabricated metal products.....	254	14,812	62,820	11,741	23,211	43,903	113,743	5,163	13,939	66,522
35	Machinery, except electrical...	232	15,283	66,839	11,736	22,654	47,485	107,272	4,700	18,081	91,770
36	Electrical machinery.....	40	11,826	50,152	9,122	17,821	34,151	87,559	3,535	14,542	73,065
38	Instruments & related products...	29	1,804	7,767	1,112	2,185	3,999	13,549	406	1,968	9,315
39	Miscellaneous manufactures <sup>3</sup> ....	145	13,752	51,605	11,108	21,392	39,709	86,914	2,394	5,554	26,634

D Withheld to avoid disclosing data for individual companies.

NA Not available.

<sup>1</sup>In order to avoid disclosing data for individual companies, the statistics for some industry groups are not shown. Industry groups reporting less than 100 employees are also omitted. They are included, however, in the "All industries" line.<sup>2</sup>The 1954 and 1947 "All industries" totals are not strictly comparable because of differences in coverage of loggers and fluid milk distributors. See discussion in Introduction and footnote to Table 4 for comparable figures at the State level.<sup>3</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)





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(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Chariton:																					
1 to 19 employees.....	11	3	...	...	...	4	...	...	2	1	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Christian:																					
1 to 19 employees.....	7	3	...	...	...	2	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	4	3	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Clark:																					
1 to 19 employees.....	3	...	...	...	...	2	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	2	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Clay:																					
1 to 19 employees.....	46	2	...	...	1	5	3	...	7	8	2	1	...	3	1	5	6	...	1	...	1
20 to 99 employees.....	39	2	...	1	2	1	3	4	2	8	2	...	...	2	3	4	...	2	1	...	2
100 employees and over.....	18	8	...	...	...	...	...	3	...	2	...	...	...	...	...	1	1	1	2	...	2
Clinton:																					
1 to 19 employees.....	9	3	...	...	...	2	1	...	3	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Cole:																					
1 to 19 employees.....	27	7	...	...	...	2	2	...	4	1	1	...	...	4	...	1	1	...	...	...	4
20 to 99 employees.....	4	2	...	...	...	...	...	...	1	...	...	...	...	...	...	1	...	...	...	...	...
100 employees and over.....	5	...	...	...	1	...	...	...	1	...	...	...	3	...	...	...	...	...	...	...	...
Cooper:																					
1 to 19 employees.....	7	2	...	...	...	1	...	...	3	...	...	...	...	...	...	...	...	...	...	...	1
20 to 99 employees.....	7	2	...	...	...	...	1	1	1	...	...	...	1	...	...	...	...	1	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
Crawford:																					
1 to 19 employees.....	11	3	...	...	...	5	1	...	1	...	...	...	...	...	...	1	...	...	...	...	...
20 to 99 employees.....	5	...	...	...	1	...	...	...	...	1	...	...	...	...	...	1	1	...	...	1	...
100 employees and over.....	3	...	...	...	1	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...
Dade:																					
1 to 19 employees.....	5	2	...	...	...	...	...	...	2	...	...	...	...	...	...	1	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Dallas:																					
1 to 19 employees.....	5	3	...	...	...	...	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...
Davies:																					
1 to 19 employees.....	9	1	...	...	...	2	...	...	3	...	...	...	...	3	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
De Kalb:																					
1 to 19 employees.....	5	...	...	...	...	2	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...
Dent:																					
1 to 19 employees.....	22	4	...	...	...	12	...	...	2	1	...	...	...	1	...	2	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
Douglas:																					
1 to 19 employees.....	7	1	...	...	...	4	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	2	2	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...
Dunklin:																					
1 to 19 employees.....	15	6	...	...	...	2	...	...	6	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	5	2	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...	1	...	...	...
100 employees and over.....	2	...	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
Franklin:																					
1 to 19 employees.....	45	10	...	...	...	10	2	...	8	...	...	...	1	6	...	...	5	...	1	...	2
20 to 99 employees.....	12	1	...	1	2	...	...	...	...	...	...	...	1	...	...	1	3	...	...	3	...
100 employees and over.....	12	...	...	1	...	...	...	1	...	...	...	...	8	...	...	...	1	...	1	...	...
Gasconade:																					
1 to 19 employees.....	8	3	...	...	...	2	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
100 employees and over.....	3	...	...	...	...	...	...	...	...	...	...	...	3	...	...	...	...	...	...	...	...
Gentry:																					
1 to 19 employees.....	7	2	...	...	...	...	...	...	3	1	...	...	...	...	...	...	1	...	...	...	...
20 to 99 employees.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Greene:																					
1 to 19 employees.....	127	34	...	...	4	13	5	1	25	1	...	2	...	7	3	8	8	1	4	1	10
20 to 99 employees.....	32	20	...	...	3	1	3	...	2	1	...	...	...	1	...	...	...	...	1	...	...
100 employees and over.....	21	8	...	...	3	1	1	2	2	...	...	...	...	1	...	1	...	...	2	...	...
Grundy:																					
1 to 19 employees.....	8	3	...	...	...	...	...	...	2	...	...	...	1	1	...	1	...	...	...	...	...
20 to 99 employees.....	4	2	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Harrison:																					
1 to 19 employees.....	6	1	...	...	...	...	...	...	3	...	...	...	...	...	...	...	2	...	...	...	...
Henry:																					
1 to 19 employees.....	18	7	...	...	...	2	...	...	2	...	...	...	...	2	...	...	...	...	...	...	5
20 to 99 employees.....	6	2	...	...	2	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
Hickory:																					
1 to 19 employees.....	2	...	...	...	...	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Holt:																					
1 to 19 employees.....	5	2	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	1	...	...
Howard:																					
1 to 19 employees.....	6	...	...	...	...	4	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
Howell:																					
1 to 19 employees.....	38	10	...	...	...	19	...	...	4	1	...	...	...	...	1	...	1	1	1	...	...
20 to 99 employees.....	5	2	...	...	1	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	3	...	...	...	2	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...

## MANUFACTURES—AREA STATISTICS

Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954—Continued  
(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Iron:																					
1 to 19 employees.....	19	2	...	...	...	13	...	...	2	...	...	...	...	1	...	...	...	...	1	...	...
20 to 99 employees.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Jackson:																					
1 to 19 employees.....	743	62	...	3	51	20	39	6	173	60	...	4	4	26	15	92	82	27	15	9	55
20 to 99 employees.....	305	41	...	...	60	6	12	12	43	15	1	...	2	10	10	31	17	8	7	7	23
100 employees and over.....	98	24	...	...	21	1	1	5	8	3	4	...	2	1	6	5	5	4	6	1	1
Jasper:																					
1 to 19 employees.....	83	20	1	...	...	8	6	...	12	3	...	1	...	4	4	5	12	1	3	...	3
20 to 99 employees.....	43	17	1	...	...	3	2	1	2	2	1	...	1	3	1	2	3	1	1	...	...
100 employees and over.....	20	...	...	...	5	1	...	...	1	5	...	...	1	2	1	2	1	...	1	...	...
Jefferson:																					
1 to 19 employees.....	22	4	...	...	...	3	...	...	5	...	...	...	...	4	...	2	2	...	...	...	2
20 to 99 employees.....	8	1	...	...	1	...	...	...	1	...	...	...	...	...	...	1	1	1	...	...	2
100 employees and over.....	3	...	...	...	...	...	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...
Johnson:																					
1 to 19 employees.....	13	4	...	...	...	2	...	...	2	1	...	...	...	...	1	...	2	...	...	...	1
20 to 99 employees.....	4	...	...	...	2	...	...	...	1	...	...	...	...	...	...	1	...	...	...	...	...
100 employees and over.....	2	...	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
Knox:																					
1 to 19 employees.....	2	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Laclede:																					
1 to 19 employees.....	15	4	...	...	...	4	...	...	2	1	...	...	...	2	...	...	...	...	...	1	1
20 to 99 employees.....	6	2	...	...	...	2	1	...	...	...	...	...	...	...	...	...	1	...	...	...	...
100 employees and over.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Lafayette:																					
1 to 19 employees.....	18	7	...	...	...	1	...	...	5	1	...	...	...	2	...	...	1	...	1	...	...
20 to 99 employees.....	4	2	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
100 employees and over.....	2	...	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
Lawrence:																					
1 to 19 employees.....	22	10	...	...	1	1	1	...	6	...	...	...	...	1	...	...	1	...	...	...	1
20 to 99 employees.....	4	1	...	...	...	...	1	...	1	...	...	...	...	...	...	1	...	...	...	...	...
100 employees and over.....	5	2	...	...	...	...	...	...	...	...	...	...	2	...	...	1	...	...	...	...	...
Lewis:																					
1 to 19 employees.....	8	3	...	...	...	1	...	...	3	...	...	...	...	...	...	...	1	...	...	...	...
20 to 99 employees.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...
Lincoln:																					
1 to 19 employees.....	9	...	...	...	...	3	...	1	2	...	...	...	...	3	...	...	...	...	...	...	...
20 to 99 employees.....	2	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
Linn:																					
1 to 19 employees.....	13	7	...	...	...	1	...	...	5	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	3	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	1	...	...	...	...
100 employees and over.....	2	...	...	...	...	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...	...
Livingston:																					
1 to 19 employees.....	13	6	...	...	...	1	...	...	3	...	...	...	...	1	...	...	1	...	1	...	...
20 to 99 employees.....	5	1	...	...	1	...	...	...	1	...	...	...	1	1	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
McDonald:																					
1 to 19 employees.....	8	5	...	...	...	2	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Macon:																					
1 to 19 employees.....	8	2	...	...	...	1	...	...	3	1	...	...	...	...	...	1	...	...	...	...	...
20 to 99 employees.....	2	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Madison:																					
1 to 19 employees.....	11	...	...	...	...	6	...	...	1	1	...	...	...	1	...	1	...	...	...	...	1
20 to 99 employees.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
Maries:																					
1 to 19 employees.....	3	...	...	1	...	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	2	...	...	...	...	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
Marion:																					
1 to 19 employees.....	25	9	...	...	1	8	...	...	5	1	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	11	6	...	...	...	1	...	1	2	...	...	...	...	...	...	...	1	...	...	...	...
100 employees and over.....	5	...	...	...	...	...	...	...	...	...	...	1	3	...	...	...	1	...	...	...	...
Mercer:																					
1 to 19 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Miller:																					
1 to 19 employees.....	18	5	...	...	...	7	...	...	2	1	...	...	...	1	...	...	...	...	1	...	1
20 to 99 employees.....	2	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
Mississippi:																					
1 to 19 employees.....	11	6	...	...	...	2	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	2	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
Moniteau:																					
1 to 19 employees.....	7	2	...	...	...	3	...	...	1	...	...	...	1	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	3	...	...	...	2	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
Monroe:																					
1 to 19 employees.....	10	4	...	...	...	2	...	...	3	...	...	...	...	...	...	...	...	...	...	...	1
100 employees and over.....	1	1	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...



Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954—Continued  
(Counties and size classes in which no manufacturing establishments were reported are omitted)

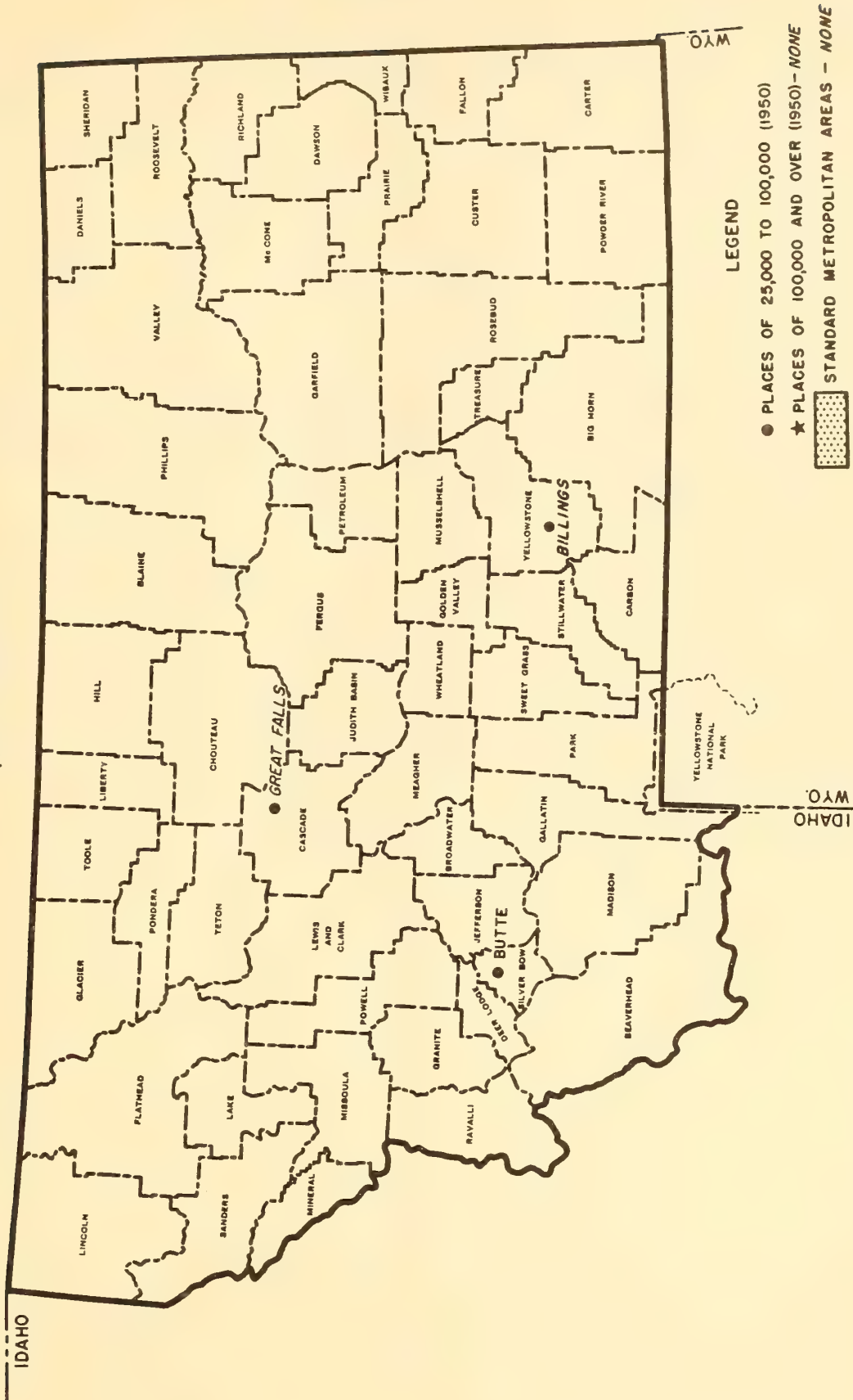
State, county, and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Montgomery:																					
1 to 19 employees.....	16	4	...	...	...	6	1	...	2	...	...	...	...	2	...	1	...	...	...	...	...
20 to 99 employees.....	4	...	...	...	1	...	...	...	...	1	...	...	1	1	...	...	...	...	...	...	...
Morgan:																					
1 to 19 employees.....	10	2	...	...	2	4	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	2	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
100 employees and over.....	2	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
New Madrid:																					
1 to 19 employees.....	8	1	...	...	...	2	...	...	4	1	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	5	...	...	...	2	1	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Newton:																					
1 to 19 employees.....	13	4	...	...	...	4	1	...	2	...	...	...	...	1	...	...	...	...	1	...	...
20 to 99 employees.....	11	5	...	...	1	2	...	...	1	...	...	...	...	1	...	1	...	...	...	...	...
100 employees and over.....	2	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Nodaway:																					
1 to 19 employees.....	16	7	...	...	...	...	...	...	4	1	...	...	...	2	...	...	1	1	...	...	...
20 to 99 employees.....	3	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1	...	...
Oregon:																					
1 to 19 employees.....	14	2	...	...	...	9	...	...	1	...	...	...	...	1	...	...	1	...	...	...	...
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Osage:																					
1 to 19 employees.....	12	3	...	...	...	2	...	...	1	3	1	...	...	1	...	...	1	...	...	...	...
20 to 99 employees.....	4	1	...	...	2	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Ozark:																					
1 to 19 employees.....	4	1	...	...	...	2	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Pemiscot:																					
1 to 19 employees.....	17	8	...	...	...	...	...	...	5	...	...	...	...	1	...	...	2	...	1	...	...
20 to 99 employees.....	4	...	...	...	1	3	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
100 employees and over.....	2	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	1	...	...
Perry:																					
1 to 19 employees.....	14	9	...	...	...	2	...	...	2	...	...	...	...	...	...	...	1	...	...	...	...
100 employees and over.....	2	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...
Pettis:																					
1 to 19 employees.....	14	7	...	...	...	1	...	...	5	...	...	...	...	...	...	...	...	...	...	...	1
20 to 99 employees.....	11	6	...	...	1	1	...	...	1	...	...	...	...	...	...	...	1	...	1	...	...
100 employees and over.....	7	2	...	...	1	...	...	...	...	1	...	...	1	2	...	...	...	...	...	...	...
Phelps:																					
1 to 19 employees.....	14	4	...	...	...	6	...	...	3	...	...	...	...	...	...	1	...	...	...	...	...
20 to 99 employees.....	3	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
100 employees and over.....	3	...	...	...	1	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...
Pike:																					
1 to 19 employees.....	10	3	...	...	...	3	...	1	2	...	...	...	...	...	...	...	...	...	...	...	1
20 to 99 employees.....	5	...	...	...	2	...	...	...	...	...	...	...	...	...	...	1	...	2	...	...	...
100 employees and over.....	3	...	...	...	1	...	...	...	...	1	...	...	...	...	...	1	...	...	...	...	...
Platte:																					
1 to 19 employees.....	9	2	...	...	...	1	...	...	4	...	...	...	...	...	...	1	...	...	...	1	...
20 to 99 employees.....	2	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Polk:																					
1 to 19 employees.....	13	5	...	...	...	2	1	...	4	...	...	...	...	...	...	...	...	...	...	...	1
20 to 99 employees.....	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Pulaski:																					
1 to 19 employees.....	10	3	...	...	...	2	...	...	2	...	...	...	...	1	...	...	...	...	1	1	...
20 to 99 employees.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...
Putnam:																					
1 to 19 employees.....	2	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Ralls:																					
1 to 19 employees.....	8	1	...	...	...	2	...	...	2	...	...	...	...	...	...	1	1	...	...	1	...
20 to 99 employees.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Randolph:																					
1 to 19 employees.....	22	12	...	...	...	2	...	...	3	...	...	...	...	2	...	1	1	...	1	...	...
20 to 99 employees.....	4	2	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...
100 employees and over.....	4	1	...	1	...	...	...	...	...	...	...	...	1	...	...	...	...	1	...	...	...
Ray:																					
1 to 19 employees.....	7	3	...	...	1	...	...	...	2	1	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Reynolds:																					
1 to 19 employees.....	21	...	...	...	...	19	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...
Ripley:																					
1 to 19 employees.....	19	...	...	...	...	18	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
St. Charles:																					
1 to 19 employees.....	23	8	...	...	...	1	1	1	4	1	...	...	...	1	...	2	2	...	1	...	1
20 to 99 employees.....	5	1	...	...	1	...	...	...	...	...	...	...	...	1	1	1	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
St. Clair:																					
1 to 19 employees.....	4	2	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
St. Francois:																					
1 to 19 employees.....	37	13	...	...	...	6	...	...	6	1	...	...	...	3	1	1	3	...	1	1	1
20 to 99 employees.....	7	1	...	1	2	2	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
100 employees and over.....	3	...	...	...	...	...	...	...	...	...	...	...	2	1	...	...	...	...	...	...	...

## MANUFACTURES—AREA STATISTICS

Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954—Continued  
(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establish- ments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
St. Louis:																					
1 to 19 employees.....	299	28	...	...	8	18	19	4	40	18	5	1	4	19	4	35	62	8	8	1	17
20 to 99 employees.....	79	6	...	...	...	4	5	...	3	4	3	...	2	9	4	17	12	3	3	2	2
100 employees and over.....	41	...	...	...	1	...	1	4	1	5	...	...	...	5	1	7	5	2	4	2	3
St. Louis City:																					
1 to 19 employees.....	1,288	147	6	10	117	37	35	19	269	110	12	5	27	43	14	157	155	13	14	19	79
20 to 99 employees.....	627	77	1	5	119	21	32	26	68	46	4	5	22	11	15	56	53	10	3	7	46
100 employees and over.....	315	44	1	7	28	...	10	17	22	18	2	...	29	9	16	41	24	17	7	3	20
Ste. Genevieve:																					
1 to 19 employees.....	14	2	...	...	...	8	...	...	2	...	...	...	...	1	...	...	...	...	...	1	...
20 to 99 employees.....	3	1	...	...	...	...	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	3	...	...	...	1	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...
Saline:																					
1 to 19 employees.....	11	4	...	...	1	...	...	...	4	...	...	...	...	1	...	...	...	...	...	...	1
20 to 99 employees.....	4	3	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	5	1	...	...	1	...	...	...	...	...	...	...	3	...	...	...	...	...	...	...	...
Schuyler:																					
1 to 19 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Scotland:																					
1 to 19 employees.....	5	1	...	...	...	1	...	...	2	...	...	...	...	...	...	...	1	...	...	...	...
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Scott:																					
1 to 19 employees.....	19	3	...	...	...	1	1	...	10	...	...	...	...	...	...	1	...	...	...	...	...
20 to 99 employees.....	7	4	...	...	...	...	...	...	1	1	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	6	1	...	...	3	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...
Shannon:																					
1 to 19 employees.....	19	...	...	...	...	16	...	...	1	...	...	...	...	1	...	...	1	...	...	...	...
20 to 99 employees.....	3	...	...	...	1	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Shelby:																					
1 to 19 employees.....	9	2	...	...	...	3	...	...	3	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Stoddard:																					
1 to 19 employees.....	21	6	...	...	...	11	...	...	3	...	...	...	...	...	...	...	1	...	...	...	...
20 to 99 employees.....	3	1	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	4	...	...	...	2	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...
Stone:																					
1 to 19 employees.....	11	5	...	...	...	3	1	...	1	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sullivan:																					
1 to 19 employees.....	4	...	...	...	...	1	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Taney:																					
1 to 19 employees.....	15	4	...	...	...	6	...	...	...	...	...	...	...	1	...	...	...	...	...	...	4
20 to 99 employees.....	2	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Texas:																					
1 to 19 employees.....	23	...	...	...	...	16	2	...	4	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	2	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	4	1	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1
Vernon:																					
1 to 19 employees.....	11	3	...	...	1	2	...	...	2	1	...	...	...	1	...	...	...	...	...	...	1
20 to 99 employees.....	3	...	...	...	...	...	...	...	1	...	...	...	...	...	...	1	1	...	...	...	...
100 employees and over.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Warren:																					
1 to 19 employees.....	7	3	...	...	...	2	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	5	...	...	...	2	...	1	...	...	...	...	...	1	...	...	1	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
Washington:																					
1 to 19 employees.....	9	...	...	...	...	6	...	...	1	...	...	...	...	1	...	...	1	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
Wayne:																					
1 to 19 employees.....	19	1	...	...	...	14	...	...	1	...	...	...	...	2	...	...	...	1	...	...	...
Webster:																					
1 to 19 employees.....	9	3	...	...	...	3	...	...	2	...	...	...	...	...	1	...	...	...	...	...	...
20 to 99 employees.....	2	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Worth:																					
1 to 19 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Wright:																					
1 to 19 employees.....	19	7	...	...	...	9	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...

**MONTANA**  
(56 COUNTIES)





## MANUFACTURES—AREA STATISTICS

Table 1.—MANUFACTURING EMPLOYMENT AT OPERATING ESTABLISHMENTS AND CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARIES FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS

(This table includes data for all manufacturing employees including those located in central administrative offices and auxiliaries. Tables 2-7 in this report include data for operating establishments only. For explanation of column captions see Introduction)

State, Standard metropolitan areas, and year <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	(Number)	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
Montana:						
1954.....	18,519	72,090	18,373	71,289	146	801
1953 <sup>2</sup> .....	17,768	71,795	17,691	71,599	77	376
1952 <sup>2</sup> .....	17,414	66,902	17,295	66,610	<sup>3</sup> 119	<sup>3</sup> 292
1951 <sup>2</sup> .....	17,221	61,244	17,102	60,952	119	292
1950 <sup>2</sup> .....	17,040	53,938	16,645	51,942	395	1,996
1949 <sup>2</sup> .....	16,567	49,812	16,057	47,316	510	2,496
Standard metropolitan areas: (None in this State)						

<sup>1</sup>Employment data for administrative offices and auxiliaries on a State basis are not available for the years prior to 1949.<sup>2</sup>The employment figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for each period. The employment figures for administrative and auxiliary units were compiled chiefly from Bureau of Old-Age and Survivors Insurance records and are not strictly comparable with the figures for these units that were collected by the Bureau of the Census for the year 1954.<sup>3</sup>The 1951 data are shown for 1952 as auxiliary and administrative unit data were not collected in 1952.

## MONTANA

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Table 2.—GENERAL STATISTICS FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Year	Establish- ments, number	All employees		Production workers		Value added by manufacture (\$1,000)
		Number	Payroll (\$1,000)	Number	Wages (\$1,000)	
	MONTANA					
1954 <sup>1</sup> .....	868	18,373	71,289	14,677	54,098	141,234
1953 <sup>2</sup> .....	(NA)	17,691	71,599	14,683	56,937	142,045
1952 <sup>2</sup> .....		17,295	66,610	14,190	53,007	138,952
1951 <sup>2</sup> .....		17,102	60,952	14,226	48,828	149,776
1950 <sup>2</sup> .....		16,645	51,942	13,614	40,842	107,837
1949 <sup>2</sup> .....		16,057	47,316	13,457	36,983	82,180
1947.....	650	15,838	42,770	13,380	34,791	90,845
1939.....	552	11,939	17,286	8,802	11,697	38,828
1937.....	515	13,220	19,694	11,268	15,758	42,238
1935.....	478	10,306	13,769	8,725	10,592	29,568
1933.....	386	(NA)	(NA)	8,244	8,800	20,744
1931.....	475	(NA)	(NA)	9,590	12,680	29,955
1929.....	589	17,135	29,470	14,869	24,215	61,249
1927.....	565	(NA)	(NA)	14,242	20,915	51,712
1925.....	606	(NA)	(NA)	14,777	21,078	59,123
1923.....	679	(NA)	(NA)	15,943	24,540	46,172
1921.....	571	(NA)	(NA)	11,384	16,791	31,605
1919.....	1,235	18,893	28,623	16,640	23,968	43,079
1914.....	931	15,511	15,759	13,686	12,983	37,671
1909.....	677	13,035	12,955	11,655	10,901	24,092
1904.....	382	9,862	10,158	8,957	8,652	25,485
1899.....	395	10,362	8,163	9,854	7,377	22,677
	STANDARD METROPOLITAN AREA (None in this State)					

NA Not available.

<sup>1</sup>The 1954 figures include data for establishments engaged in the processing and distribution of fluid milk, Industry Group 202, Dairy Products. These establishments were not included in the figures for the Annual Survey years 1949-1953 or earlier Census years. In addition, the 1954 Census and Annual Survey years include data for Industry 2411, Logging Camps and Contractors, which were not included within the scope of the 1947 Census. See footnotes to Table 4 for comparable 1954 and 1947 totals. There were also a number of changes in the definition of manufacturing industries during earlier Census years that affect the comparability of the historical series. Among the more important of these were: figures for 1935 and later years exclude data for "Railroad repair shops" and "Manufactured gas" which were included in 1899-1933 figures; the minimum size of establishments included for 1954 and 1947 was one employee, for 1939-1921 manufacturing establishments reporting value of shipments of \$5,000 or more were within scope whereas for 1919 and earlier years the cutoff was \$500. (This change in procedure has not appreciably affected the comparability of the historical data except for the figures on number of establishments.)

<sup>2</sup>The employment and payroll figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments.

## MANUFACTURES—AREA STATISTICS

Table 3.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
Montana, total.....	591,024	868	18,373	71,289	14,677	27,762	54,098	141,234	20,574	(1)	(1)
STANDARD METROPOLITAN AREAS (None in this State)											
COUNTIES											
Beaverhead.....	6,671	8	23	73	19	39	65	146	7	19	79
Big Horn.....	9,824	6	183	701	143	299	512	1,382	49	189	(D)
Blaine.....	8,516	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	190	(D)
Broadwater.....	2,922	6	21	63	18	37	57	104	5	(D)	(D)
Carbon.....	10,241	10	59	147	47	100	119	278	46	61	150
Carter.....	2,798	3	4	7	3	7	6	18	(D)	(D)	(D)
Cascade.....	53,027	56	2,559	9,914	1,924	3,306	6,778	27,382	2,747	2,736	15,792
Chouteau.....	6,974	4	15	34	11	18	29	56	(D)	(D)	(D)
Custer.....	12,661	11	94	370	64	122	261	639	52	108	440
Daniels.....	3,946	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Dawson.....	9,092	8	46	140	32	66	88	232	19	34	152
Deer Lodge.....	16,553	14	2,224	(D)	1,661	(D)	(D)	(D)	(D)	1,922	(D)
Fallon.....	3,660	3	8	22	7	12	20	43	(D)	(D)	(D)
Fergus.....	14,015	18	274	994	213	479	791	2,539	142	331	2,074
Flathead.....	31,495	120	1,349	4,879	1,187	2,124	4,036	8,394	1,276	1,538	6,985
Gallatin.....	21,902	41	659	2,314	533	1,040	1,775	6,218	403	491	3,288
Garfield.....	2,172	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Glacier.....	9,645	6	55	(D)	45	(D)	(D)	(D)	(D)	97	(D)
Golden Valley.....	1,337	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Granite.....	2,773	13	59	186	56	87	144	219	80	(D)	(D)
Hill.....	14,285	13	146	525	86	192	277	1,050	48	111	483
Jefferson.....	4,014	5	20	41	18	32	39	91	6	22	46
Judith Basin.....	3,200	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Lake.....	13,835	24	(D)	(D)	(D)	(D)	(D)	(D)	(D)	350	1,286
Lewis and Clark.....	24,540	37	842	3,376	661	1,257	2,481	6,437	187	879	4,701
Liberty.....	2,180	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Lincoln.....	8,693	72	1,417	5,873	1,242	2,395	4,894	11,507	2,202	733	4,086
McCone.....	3,258	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...	...
Madison.....	5,998	6	16	32	13	27	26	61	11	12	48
Meagher.....	2,079	10	48	129	42	63	115	168	23	4	42
Mineral.....	2,081	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	106	422
Missoula.....	35,493	79	2,273	9,277	1,916	3,755	7,395	15,774	1,438	1,800	8,416
Musselshell.....	5,408	6	17	39	13	24	30	84	4	(D)	(D)
Park.....	11,999	19	(D)	(D)	(D)	(D)	(D)	(D)	(D)	95	372
Petroleum.....	1,026	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Phillips.....	6,334	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	13	86
Pondera.....	6,392	3	20	(D)	12	(D)	(D)	(D)	(D)	18	(D)
Powder River.....	2,693	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...	...
Powell.....	6,301	14	72	225	55	99	179	380	21	58	216
Prairie.....	2,377	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Ravalli.....	13,101	25	302	1,037	264	521	898	2,231	301	298	1,201
Richland.....	10,366	7	207	809	168	390	668	1,750	76	238	1,456
Roosevelt.....	9,580	4	42	124	32	72	93	207	27	21	73
Rosebud.....	6,570	4	26	52	23	38	43	94	6	(D)	(D)
Sanders.....	6,983	28	555	1,952	534	917	1,863	3,496	644	426	2,227
Sheridan.....	6,674	3	23	(D)	16	(D)	(D)	(D)	(D)	33	77
Silver Bow.....	48,422	47	1,151	4,527	888	1,688	3,392	7,831	832	734	3,848
Stillwater.....	5,416	4	15	28	12	22	21	49	5	10	46
Sweet Grass.....	3,621	7	15	30	11	22	25	95	12	8	(D)
Teton.....	7,232	6	18	55	11	21	36	127	21	14	40
Toole.....	6,867	7	186	950	153	315	756	1,845	313	169	(D)
Treasure.....	1,402	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...	...
Valley.....	11,353	4	33	88	26	42	69	201	(D)	34	132
Wheatland.....	3,187	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	48	(D)
Wibaux.....	1,907	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...	...
Yellowstone.....	55,875	84	2,410	10,359	1,753	3,563	7,076	22,058	6,628	1,822	14,043
Yellowstone National Park (part).....	58	...	...	...	...	...	...	...	...	...	...
CITIES WITH 10,000 INHAB- ITANTS OR MORE											
Anaconda.....	11,254	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	85	313
Billings.....	31,834	54	1,160	4,430	810	1,617	2,805	6,889	403	1,023	4,576
Bozeman.....	11,325	18	274	872	199	394	587	1,842	98	(NA)	(NA)
Butte.....	33,251	38	642	2,551	461	862	1,802	3,856	105	553	2,629
Great Falls.....	39,214	45	878	(D)	554	(D)	(D)	(D)	(D)	852	5,800
Helena.....	17,581	15	189	(D)	125	(D)	(D)	(D)	(D)	397	(D)
Missoula.....	22,485	34	879	3,319	694	1,266	2,418	6,643	456	774	3,402

D Withheld to avoid disclosing figures for individual companies. NA Not available. <sup>1</sup>The 1947 data are not strictly comparable with the figures shown for 1954 due to differences in coverages of loggers and fluid milk distributors. See discussion in Introduction and footnotes to Table 4.



Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establish- ments, number		All employees		Production workers			Value added by manufacture	Value of shipments	Capital expendi- tures, new	All employees, number	Value added by manufacture
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
	All industries, total <sup>1</sup> ...	868	172	18,373	71,289	14,677	27,762	54,098	141,234	( <sup>2</sup> )	20,574	( <sup>3</sup> )	( <sup>3</sup> )
20	Food and kindred products..	218	53	4,088	14,539	2,911	6,064	9,591	31,888	( <sup>2</sup> )	1,835	( <sup>3</sup> )	( <sup>3</sup> )
201	Meat products.....	18	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2011	Meat packing, plants.....	15	6	704	2,427	584	1,075	1,793	2,961	( <sup>2</sup> )	167	667	(D)
202	Dairy products.....	84	15	975	3,128	567	1,185	1,572	6,586	( <sup>2</sup> )	621	( <sup>3</sup> )	( <sup>3</sup> )
2021	Creamery butter.....	24	1	166	404	118	223	261	779	3,287	41	( <sup>3</sup> )	( <sup>3</sup> )
2024	Ice cream and ices.....	14	3	188	618	104	211	283	845	2,300	133	( <sup>3</sup> )	( <sup>3</sup> )
2027	Fluid milk and other products..	37	10	539	1,877	298	653	904	3,995	14,171	415	( <sup>3</sup> )	( <sup>3</sup> )
204	Grain mill products.....	14	8	388	1,662	295	671	1,243	5,168	( <sup>2</sup> )	163	511	4,251
2041	Flour and meal.....	7	5	263	1,173	207	489	914	3,779	21,535	26	415	3,848
205	Bakery products.....	46	12	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2051	Bread and related products.....	46	12	739	2,410	493	1,068	1,497	4,594	9,071	214	686	3,356
206	Sugar.....	4	4	632	2,600	515	1,177	2,077	6,376	16,605	169	944	8,668
2063	Beet sugar.....	4	4	632	2,600	515	1,177	2,077	6,376	16,605	169	944	8,668
208	Beverages.....	34	6	467	1,832	308	593	1,081	5,423	( <sup>2</sup> )	443	500	3,411
2081	Bottled soft drinks.....	28	1	209	699	113	208	306	1,600	2,551	229	(D)	(D)
2082	Beer and ale.....	6	5	257	1,133	194	384	774	3,823	6,672	214	302	2,481
23	Apparel and related prod- ucts.....	2	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...	(D)	(D)
24	Lumber and wood products...	393	66	6,192	23,864	5,635	10,503	20,687	40,751	( <sup>2</sup> )	6,727	( <sup>3</sup> )	( <sup>3</sup> )
2411	Logging camps and contractors	139	15	1,085	3,754	1,029	1,745	3,428	7,023	10,991	1,390	( <sup>3</sup> )	( <sup>3</sup> )
242	Lumber and basic products...	231	46	4,536	18,029	4,106	7,849	15,577	30,117	( <sup>2</sup> )	5,235	(D)	(D)
243	Millwork and related products	14	3	441	1,653	392	699	1,348	2,965	( <sup>2</sup> )	96	(D)	(D)
249	Miscellaneous wood products..	9	2	129	427	107	208	333	644	( <sup>2</sup> )	5	229	1,214
2491	Wood preserving.....	5	2	107	333	90	169	273	482	1,138	(D)	(D)	(D)
25	Furniture and fixtures.....	9	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	110	135
26	Pulp, paper and products...	2	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...	...
27	Printing and publishing....	100	20	1,553	6,313	1,011	1,794	4,226	9,912	( <sup>2</sup> )	299	1,283	6,037
2711	Newspapers.....	81	16	1,283	5,257	835	1,488	3,549	8,455	11,232	254	1,006	5,024
2751	Commercial printing.....	11	4	220	890	152	266	607	1,062	1,603	39	217	747
28	Chemicals and products.....	12	4	837	3,662	560	1,192	2,443	5,833	( <sup>2</sup> )	1,306	435	2,149
29	Petroleum and coal products	10	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	567	7,855
2911	Petroleum refining.....	10	8	993	5,299	765	1,563	3,959	13,677	69,540	6,991	(D)	(D)
31	Leather and leather goods..	5	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
32	Stone, clay and glass prod- ucts.....	29	5	499	1,947	419	851	1,529	5,937	( <sup>2</sup> )	242	569	3,607
327	Concrete and plaster products	20	1	224	856	181	383	662	2,389	( <sup>2</sup> )	155	311	1,956
33	Primary metal industries...	12	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3,602	21,816
332	Iron and steel foundries.....	3	2	148	580	126	230	507	870	1,475	4	(D)	(D)
3321	Gray-iron foundries.....	3	2	148	580	126	230	507	870	1,475	4	(D)	(D)
34	Fabricated metal products..	26	3	200	795	150	287	568	1,137	( <sup>2</sup> )	205	278	1,302
344	Structural metal products....	19	2	160	619	118	222	444	938	( <sup>2</sup> )	199	182	(D)
35	Machinery, except electri- cal.....	21	2	140	527	105	212	384	857	( <sup>2</sup> )	165	107	321
37	Transportation equipment...	4	1	32	124	26	44	84	161	( <sup>2</sup> )	6	24	(D)
38	Instruments and related products.....	4	...	16	31	12	23	24	86	( <sup>2</sup> )	13	(D)	(D)
39	Miscellaneous manufactures <sup>4</sup>	21	...	136	489	106	203	318	750	( <sup>2</sup> )	(D)	121	523
398 399	Miscellaneous manufactures <sup>4</sup> ..	15	...	110	436	82	161	273	653	( <sup>2</sup> )	...	(D)	(D)

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industries (4-digit) and industry groups (3-digit) are not shown. Industries and industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "all industries" line.

<sup>2</sup>The total value of shipments figures for industry groups and a few individual industries have not been published due to the extensive and unmeasurable duplication arising from shipments from one establishment to another in the same industry classification. (See Introduction.)

Footnotes continued on next page.

Footnotes for Table 4.

<sup>3</sup>Comparable data are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude establishments in S.I.C. Industry 2411, Logging Camps and Contractors, which are included in the scope of the 1954 Census; the 1947 Census also excludes plants processing and distributing fluid milk which in 1954 were classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	All industries except subgroups 202 and 2411, total.....	16,313	127,625	15,283	88,376
20	Food and kindred products except subgroup 202, Dairy products.....	3,113	25,302	3,524	23,761
24	Lumber and wood products except Industry 2411, Logging camps and contractors.....	5,107	33,728	4,627	20,665

<sup>4</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)

Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUPS: 1954 AND 1947  
(This State contained no standard metropolitan area with 40,000 or more manufacturing employees in 1954 or 1947)

Table 6.—GENERAL STATISTICS FOR PRINCIPAL INDUSTRIAL COUNTIES (THOSE WITH 20,000 OR MORE MANUFACTURING EMPLOYEES),  
BY MAJOR INDUSTRY GROUPS: 1954 AND 1947

(This State contained no county with 20,000 or more manufacturing employees in 1954 and 1947)

20 Food and kindred products	26 Pulp, paper and products	32 Stone, clay, and glass products	38 Instruments and related products
21 Tobacco manufactures	27 Printing and publishing	33 Primary metal industries	39 Miscellaneous manufactures (Includes Group 19 Ordnance and accessories)
22 Textile mill products	28 Chemicals and products	34 Fabricated metal products	
23 Apparel and related products	29 Petroleum and coal products	35 Machinery, except electrical	
24 Lumber and wood products	30 Rubber products	36 Electrical machinery	
25 Furniture and fixtures	31 Leather and leather goods	37 Transportation equipment	

(Counties and size classes in which no manufacturing establishments were reported are omitted)

[illegible]

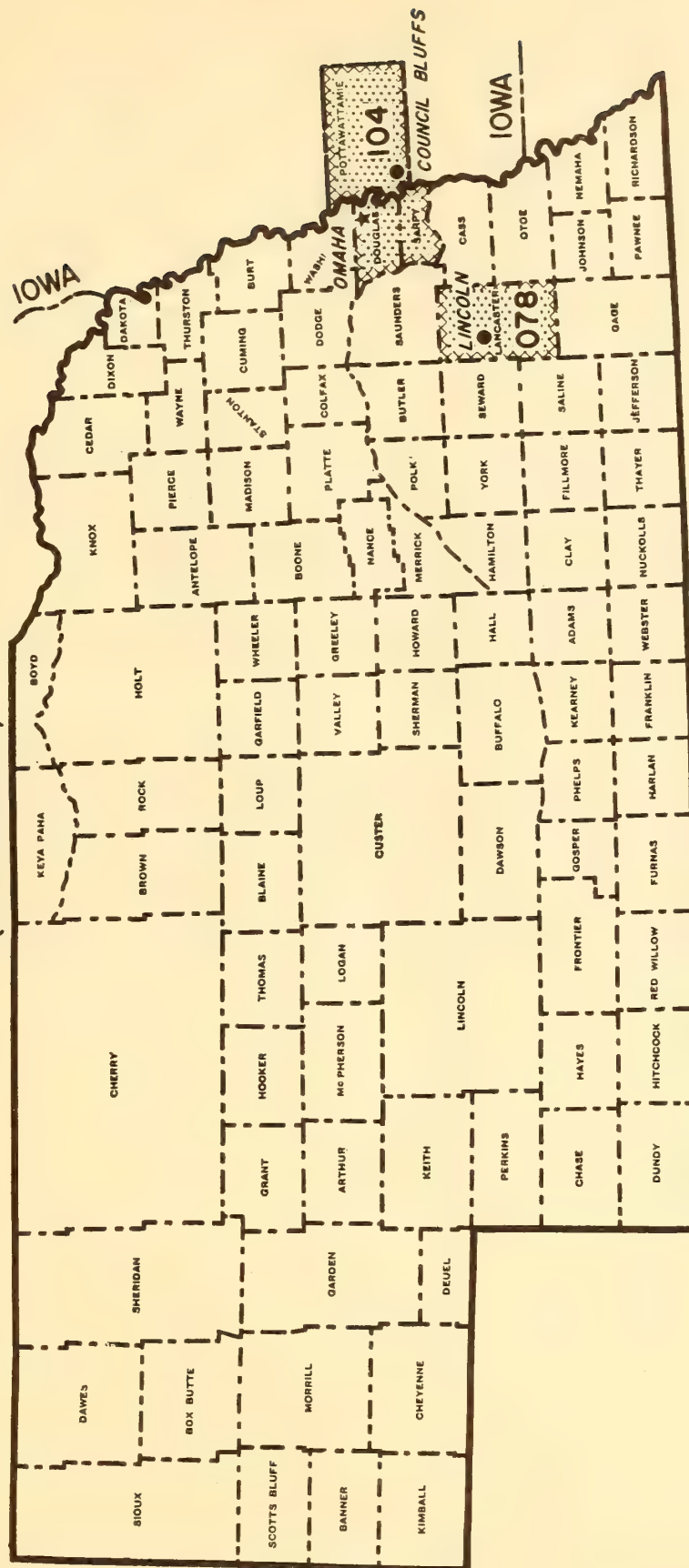


## MANUFACTURES—AREA STATISTICS

Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954—Continued  
(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establish- ments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Lincoln:																					
1 to 19 employees.....	65	2	...	...	...	62	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	6	...	...	...	...	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
McCone:																					
1 to 19 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Madison:																					
1 to 19 employees.....	6	1	...	...	...	4	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Meagher:																					
1 to 19 employees.....	10	1	...	...	...	8	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Mineral:																					
1 to 19 employees.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	3	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Missoula:																					
1 to 19 employees.....	59	8	...	...	...	37	1	...	3	1	...	...	1	...	1	3	...	...	...	1	3
20 to 99 employees.....	15	6	...	...	...	9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	5	1	...	...	...	3	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Musselshell:																					
1 to 19 employees.....	6	3	...	...	...	2	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Park:																					
1 to 19 employees.....	17	5	...	...	...	7	...	...	2	...	...	...	...	...	...	2	...	...	...	...	1
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Phillips:																					
1 to 19 employees.....	2	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Pondera:																					
1 to 19 employees.....	3	2	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Powder River:																					
1 to 19 employees.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Powell:																					
1 to 19 employees.....	14	2	...	...	...	10	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...
Prairie:																					
1 to 19 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Ravalli:																					
1 to 19 employees.....	21	5	...	...	...	12	...	...	3	...	...	...	...	...	...	...	1	...	...	...	...
20 to 99 employees.....	4	1	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Richland:																					
1 to 19 employees.....	6	3	...	...	...	...	1	...	2	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Roosevelt:																					
1 to 19 employees.....	4	3	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Rosebud:																					
1 to 19 employees.....	4	2	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sanders:																					
1 to 19 employees.....	20	1	...	...	...	15	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	6	...	...	...	...	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sheridan:																					
1 to 19 employees.....	3	1	...	...	...	...	...	...	1	...	...	...	...	1	1	...	...	...	...	...	...
Silver Bow:																					
1 to 19 employees.....	34	15	...	...	...	4	1	...	3	1	...	...	...	1	...	3	2	...	...	1	3
20 to 99 employees.....	10	4	...	...	...	2	...	...	2	...	...	...	...	...	2	...	...	...	...	...	...
100 employees and over.....	3	1	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...
Stillwater:																					
1 to 19 employees.....	4	2	...	...	...	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Sweet Grass:																					
1 to 19 employees.....	7	3	...	...	...	3	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Teton:																					
1 to 19 employees.....	6	2	...	...	...	1	...	...	2	...	...	...	...	...	...	...	1	...	...	...	...
Toole:																					
1 to 19 employees.....	5	1	...	...	...	...	...	...	1	1	1	...	...	...	...	1	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...
Treasure:																					
1 to 19 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Valley:																					
1 to 19 employees.....	3	2	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Wheatland:																					
1 to 19 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Wibaux:																					
1 to 19 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Yellowstone:																					
1 to 19 employees.....	62	18	...	...	1	5	2	1	6	3	...	...	...	4	...	10	5	...	1	1	5
20 to 99 employees.....	16	10	...	...	...	1	...	...	2	...	...	...	...	1	...	...	1	...	1	...	...
100 employees and over.....	6	2	...	...	...	...	...	...	1	...	3	...	...	...	...	...	...	...	...	...	...

# NEBRASKA (93 COUNTIES)



## STANDARD METROPOLITAN AREAS

CODE  
078 LINCOLN  
104 OMAHA, NEBRASKA

## LEGEND

● PLACES OF 25,000 TO 100,000 (1950)

★ PLACES OF 100,000 AND OVER (1950)

■ STANDARD METROPOLITAN AREAS

## MANUFACTURES—AREA STATISTICS

Table 1.—MANUFACTURING EMPLOYMENT AT OPERATING ESTABLISHMENTS AND CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARIES FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS

(This table includes data for all manufacturing employees including those located in central administrative offices and auxiliaries. Tables 2-7 in this report include data for operating establishments only. For explanation of column captions see Introduction)

State, standard metropolitan areas, and year <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	(Number)	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
Nebraska:						
1954.....	60,290	227,651	56,996	213,732	3,294	13,919
1953 <sup>2</sup> .....	57,588	210,973	57,424	210,073	164	900
1952 <sup>2</sup> .....	53,063	186,180	53,031	185,996	<sup>3</sup> 32	<sup>3</sup> 184
1951 <sup>2</sup> .....	50,683	166,980	50,651	166,796	32	184
1950 <sup>2</sup> .....	48,025	147,793	47,984	147,617	41	176
1949 <sup>2</sup> .....	45,651	124,186	45,276	123,114	375	1,072
1954						
Standard metropolitan areas:						
Lincoln <sup>4</sup> .....	8,681	32,342	8,681	32,342	...	...
Omaha <sup>5</sup> .....	33,633	134,594	30,586	121,924	3,047	12,670

<sup>1</sup>Employment data for administrative offices and auxiliaries on a State basis are not available for the years prior to 1949. Similar data for standard metropolitan areas are available only for 1954.<sup>2</sup>The employment figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period. The employment figures for administrative and auxiliary units were compiled chiefly from Bureau of Old-Age and Survivors Insurance records and are not strictly comparable with the figures for these units that were collected by the Bureau of the Census for the year 1954.<sup>3</sup>The 1951 data are shown for 1952 auxiliary and administrative unit data were not collected in 1952.<sup>4</sup>The Lincoln Standard Metropolitan Area consists of: Lancaster County, Nebraska.<sup>5</sup>The Omaha Standard Metropolitan Area consists of: Douglas and Sarpy Counties, Nebraska; Pottawattamie County, Iowa.



Table 2.—GENERAL STATISTICS FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Year	Establish- ments, number	All employees		Production workers		Value added by manufacture (\$1,000)		
		Number	Payroll (\$1,000)	Number	Wages (\$1,000)			
NEBRASKA								
1954 <sup>1</sup> .....	1,423	{	56,996	213,732	43,431	150,728	394,222	
1953 <sup>2</sup> .....			57,424	210,073	45,006	152,862	401,398	
1952 <sup>2</sup> .....			53,031	185,996	41,779	135,564	344,436	
1951 <sup>2</sup> .....			50,651	166,976	40,433	124,996	336,725	
1950 <sup>2</sup> .....			(NA)	47,984	147,617	36,371	101,644	270,579
1949 <sup>2</sup> .....	{	{	45,276	123,114	34,942	84,289	219,880	
1947.....			1,341	47,014	119,884	37,325	87,400	260,598
1939.....			1,093	26,183	34,138	18,416	20,175	68,139
1937.....			1,071	24,489	31,175	19,590	22,126	67,424
1935.....			1,140	22,665	26,837	17,855	18,129	58,395
1933.....	992	(NA)	(NA)	19,483	18,872	55,438		
1931.....	1,278	(NA)	(NA)	23,522	28,351	79,157		
1929.....	1,491	34,752	51,347	28,212	36,881	119,994		
1927.....	1,277	(NA)	(NA)	26,110	34,296	93,379		
1925.....	1,306	(NA)	(NA)	27,200	36,021	94,912		
1923.....	1,379	(NA)	(NA)	31,267	39,761	101,030		
1921.....	1,390	(NA)	(NA)	27,655	37,395	87,388		
1919.....	2,385	44,924	60,138	35,387	44,513	112,646		
1914.....	2,488	31,215	24,007	25,136	16,886	47,490		
1909.....	2,500	29,444	19,439	24,336	13,948	47,938		
1904.....	1,819	23,452	14,097	20,260	11,022	30,867		
1899.....	1,695	20,965	10,950	18,669	8,842	34,377		
STANDARD METROPOLITAN AREAS (None with 40,000 or more manufacturing employees in this State)								

NA Not available.

<sup>1</sup>The 1954 figures include data for establishments engaged in the processing and distribution of fluid milk, Industry Group 202, Dairy Products. These establishments were not included in the figures for the Annual Survey years 1949-1953 or earlier Census years. In addition, the 1954 Census and Annual Survey years include data for Logging Camps and Contractors, Industry 2411, which were not included within the scope of the 1947 Census. See footnotes to Table 4 for comparable 1954 and 1947 totals. There were also a number of changes in the definition of manufacturing industries during earlier Census years that affect the comparability of the historical series. Among the more important of these were: figures for 1935 and later years exclude data for "Railroad repair shops" and "Manufactured gas" which were included in 1899-1933 figures; the minimum size of establishment included for 1954 and 1947 was one employee, for 1939-1921 manufacturing establishments reporting value of shipments of \$5,000 or more were within scope whereas for 1919 and earlier years the cutoff was \$500. (This change in procedure has not appreciably affected the comparability of the historical data except for the figures on number of establishments.)

<sup>2</sup>The employment and payroll figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period.

## MANUFACTURES—AREA STATISTICS

Table 3.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
Nebraska, total.....	1,325,510	1,423	56,996	213,732	43,431	90,351	150,728	394,222	36,414	(1)	(1)
STANDARD METROPOLITAN AREAS											
Lincoln.....	119,742	141	8,681	32,342	6,727	13,178	23,578	63,898	2,935	7,522	34,637
Omaha.....	366,395	554	30,586	121,924	22,879	47,544	84,830	213,792	25,817	27,526	167,057
Portion in Nebraska.....	296,713	477	28,968	116,573	21,614	45,033	81,104	204,364	25,304	25,955	160,239
Portion in Iowa.....	69,682	77	1,618	5,351	1,265	2,511	3,726	9,428	513	1,571	6,818
COUNTIES											
Adams.....	28,855	37	1,071	3,926	797	1,774	2,527	7,946	368	950	3,886
Antelope.....	11,624	8	13	24	9	18	16	88	4	24	158
Arthur.....	803	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...	...
Banner.....	1,325	...	...	...	...	...	...	...	...	...	...
Blaine.....	1,203	...	...	...	...	...	...	...	...	(D)	(D)
Boone.....	10,721	5	21	40	16	33	30	95	(D)	18	53
Box Butte.....	12,279	13	385	985	335	742	713	1,567	57	152	575
Boyd.....	4,911	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Brown.....	5,164	5	33	95	26	59	67	178	8	80	269
Buffalo.....	25,134	24	412	1,150	318	695	822	1,891	166	256	1,041
Burt.....	11,536	7	53	160	48	104	146	463	59	85	290
Butler.....	11,432	5	22	58	17	36	48	117	18	24	50
Cass.....	16,361	5	315	(D)	294	(D)	(D)	(D)	(D)	371	2,201
Cedar.....	13,843	7	30	53	24	44	45	154	(D)	27	86
Chase.....	5,176	6	12	24	9	18	19	39	42	10	(D)
Cherry.....	8,397	4	26	83	20	42	56	159	6	5	(D)
Cheyenne.....	12,081	6	47	161	31	90	112	330	56	43	176
Clay.....	8,700	5	16	45	10	24	27	57	10	55	(D)
Colfax.....	10,010	12	58	141	44	90	117	222	18	72	298
Cuming.....	12,994	10	133	371	113	273	293	685	56	94	270
Custer.....	19,170	16	54	124	43	77	83	406	9	48	179
Dakota.....	10,401	8	108	362	88	145	226	576	219	50	215
Dawes.....	9,708	11	76	224	59	110	155	577	28	120	424
Dawson.....	19,393	35	592	2,244	515	1,392	1,883	4,815	643	511	3,342
Deuel.....	3,330	3	6	9	4	6	7	27	(D)	10	34
Dixon.....	9,129	5	74	(D)	70	(D)	(D)	(D)	(D)	(D)	(D)
Dodge.....	26,265	44	1,586	6,287	1,227	2,485	4,657	8,819	583	655	3,420
Douglas.....	281,020	470	28,510	114,689	21,270	44,259	79,810	202,260	11,421	25,887	159,758
Dundy.....	4,354	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	10	(D)
Fillmore.....	9,610	9	42	88	33	58	68	209	34	37	95
Franklin.....	7,096	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	13	(D)
Frontier.....	5,282	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	20	(D)
Furnas.....	9,385	7	247	(D)	216	(D)	(D)	(D)	(D)	109	(D)
Gage.....	28,052	25	1,217	4,342	897	1,877	2,776	8,222	341	1,349	5,248
Garden.....	4,114	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	27	(D)
Gosper.....	2,734	...	...	...	...	...	...	...	...	(D)	(D)
Garfield.....	2,912	3	34	(D)	29	(D)	(D)	(D)	(D)	34	(D)
Grant.....	1,057	...	...	...	...	...	...	...	...	(D)	(D)
Greeley.....	5,575	5	13	21	9	19	16	74	98	16	72
Hall.....	32,186	48	2,274	8,251	1,547	3,224	5,127	10,793	745	810	4,915
Hamilton.....	8,778	4	53	(D)	37	(D)	(D)	(D)	(D)	40	(D)
Harlan.....	7,189	4	42	(D)	25	(D)	(D)	(D)	(D)	156	(D)
Hayes.....	2,404	...	...	...	...	...	...	...	...	...	...
Hitchcock.....	5,867	5	16	20	12	18	15	70	14	12	33
Holt.....	14,859	11	44	107	33	67	81	290	14	50	217
Hooker.....	1,061	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Howard.....	7,226	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	14	(D)
Jefferson.....	13,623	16	360	1,006	285	553	702	2,005	151	296	1,387
Johnson.....	7,251	7	242	644	231	524	615	1,137	93	117	(D)
Kearney.....	6,409	7	63	229	46	133	171	579	21	35	(D)
Keith.....	7,449	6	617	(D)	581	(D)	(D)	(D)	(D)	159	(D)
Keya Paha.....	2,160	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Kimball.....	4,283	4	22	46	17	36	36	91	19	(D)	(D)
Knox.....	14,280	9	63	155	47	103	123	331	35	64	294
Lancaster.....	119,742	141	8,681	32,342	6,727	13,178	23,578	63,898	2,935	7,522	34,637
Lincoln.....	27,380	22	369	1,353	236	547	818	2,241	178	379	1,244
Logan.....	1,357	...	...	...	...	...	...	...	...	...	...
Madison.....	24,338	29	552	1,753	386	899	1,093	3,506	130	420	1,480
Loup.....	1,348	...	...	...	...	...	...	...	...	...	...
Merrick.....	8,812	8	109	214	101	163	189	314	(D)	114	447

See footnotes at end of table.

Table 3.--GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947--Continued  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
McPherson.....	825	...	...	...	...	...	...	...	...	...	...
Morrill.....	8,263	6	135	(D)	114	(D)	(D)	(D)	(D)	145	(D)
Nance.....	6,512	3	10	17	7	13	13	35	(D)	(D)	(D)
Nemaha.....	10,973	8	218	516	196	426	405	918	54	55	492
Nuckolls.....	9,609	10	346	1,122	283	497	758	3,296	43	337	1,913
Otoe.....	17,056	19	764	2,154	671	1,277	1,713	3,872	565	539	2,205
Pawnee.....	6,744	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	8	23
Perkins.....	4,809	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Phelps.....	9,048	11	179	497	139	307	327	1,032	174	170	616
Pierce.....	9,405	9	59	149	40	93	92	897	36	47	170
Platte.....	19,910	34	1,011	3,323	807	1,758	2,355	5,285	285	415	1,745
Polk.....	8,044	4	8	14	5	11	10	37	(D)	7	19
Red Willow.....	12,977	12	201	731	144	331	502	1,546	64	134	664
Richardson.....	16,886	13	217	577	158	346	315	1,666	66	257	1,109
Rock.....	3,026	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5	(D)
Saline.....	14,046	11	531	1,909	395	833	1,208	4,053	419	642	(D)
Sarpy.....	15,693	7	458	1,884	344	774	1,294	2,104	(D)	68	481
Saunders.....	16,923	11	1,398	(D)	1,096	(D)	(D)	(D)	(D)	203	993
Scotts Bluff.....	33,939	46	1,259	4,756	940	2,066	3,399	11,228	795	1,207	9,318
Seward.....	13,155	9	372	1,134	316	729	896	1,527	53	379	(D)
Sheridan.....	9,539	9	35	75	28	52	59	168	6	26	80
Sherman.....	6,421	4	18	53	16	35	50	239	6	59	(D)
Sioux.....	3,124	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Stanton.....	6,387	3	16	52	14	32	48	131	(D)	15	85
Thayer.....	10,563	10	219	429	192	326	335	587	23	271	(D)
Thomas.....	1,206	...	...	...	...	...	...	...	...	...	...
Thurston.....	8,590	7	52	206	40	77	102	322	32	149	(D)
Valley.....	7,252	7	84	208	69	147	165	591	19	65	240
Washington.....	11,511	12	407	1,477	282	627	1,002	2,026	121	138	586
Wayne.....	10,129	3	44	(D)	42	(D)	(D)	(D)	(D)	51	(D)
Webster.....	7,395	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	28	77
Wheeler.....	1,526	...	...	...	...	...	...	...	...	...	...
York.....	14,346	10	112	233	96	182	192	1,001	27	158	(D)
CITIES WITH 10,000 INHAB- ITANTS OR MORE											
Beatrice.....	11,813	21	1,177	4,192	868	1,814	2,688	7,962	326	1,016	(D)
Fremont.....	14,762	28	1,441	5,850	1,122	2,256	4,363	7,980	510	546	2,984
Grand Island.....	22,682	28	695	2,310	443	907	1,275	3,910	328	570	3,457
Hastings.....	20,211	34	1,016	3,716	749	1,651	2,360	7,609	319	(D)	(D)
Kearney.....	12,115	14	155	443	107	206	285	691	57	(NA)	(NA)
Lincoln.....	98,884	131	8,541	31,879	6,615	12,951	23,231	62,965	2,809	7,280	32,210
Norfolk.....	11,335	21	468	1,489	323	735	912	2,596	96	349	1,125
North Platte.....	15,433	16	171	568	86	191	284	970	64	165	573
Omaha.....	251,117	434	27,688	111,623	20,648	42,940	77,779	194,117	9,174	25,367	157,370
Scottsbluff.....	12,858	23	297	1,047	208	443	686	2,388	72	214	1,045

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>The 1947 data are not strictly comparable with the figures shown for 1954 due to differences in coverage of loggers and fluid milk distributors.  
See discussion in Introduction and footnotes to Table 4.



## MANUFACTURES—AREA STATISTICS

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
	All industries, total <sup>1</sup> ...	1,423	378	56,996	213,732	43,431	90,351	150,728	394,222	( <sup>2</sup> )	36,414	( <sup>3</sup> )	( <sup>3</sup> )
20	Food and kindred products..	484	160	27,730	107,601	20,659	44,320	76,381	197,635	( <sup>2</sup> )	11,482	( <sup>3</sup> )	( <sup>3</sup> )
201	Meat products.....	78	40	13,199	54,662	10,796	22,751	44,719	77,538	( <sup>2</sup> )	2,153	12,448	79,786
2011	Meat packing, plants.....	49	24	11,126	48,764	8,911	18,907	39,687	67,070	( <sup>2</sup> )	1,697	9,466	60,589
2013	Prepared meats.....	12	5	788	2,758	664	1,333	2,153	5,790	( <sup>2</sup> )	191	866	7,266
2015	Poultry dressing, plants.....	17	11	1,284	3,139	1,219	2,510	2,878	4,677	22,043	264	2,116	11,931
202	Dairy products.....	130	36	3,245	10,990	1,856	4,042	5,301	23,166	( <sup>2</sup> )	1,575	( <sup>3</sup> )	( <sup>3</sup> )
2021	Creamery butter.....	48	14	1,017	2,915	757	1,673	1,904	8,277	45,795	563	( <sup>3</sup> )	( <sup>3</sup> )
2024	Ice cream and ices.....	17	4	476	1,600	310	636	941	3,021	9,515	302	( <sup>3</sup> )	( <sup>3</sup> )
2027	Fluid milk and other products..	51	16	1,637	6,140	726	1,598	2,293	11,213	31,750	685	( <sup>3</sup> )	( <sup>3</sup> )
204	Grain mill products.....	114	36	3,394	12,961	2,724	6,325	9,902	40,774	( <sup>2</sup> )	3,519	3,125	25,327
2041	Flour and meal.....	12	7	595	2,224	475	1,039	1,711	7,030	40,543	604	1,257	12,992
2042	Prepared animal feeds.....	95	25	2,107	7,942	1,638	3,960	5,803	23,250	86,657	2,594	(D)	(D)
205	Bakery products.....	50	15	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2051	Bread and related products.....	49	14	2,211	8,978	1,082	2,282	3,796	14,607	26,773	973	(D)	(D)
208	Beverages.....	54	9	1,391	5,660	877	1,813	3,278	14,198	( <sup>2</sup> )	1,444	1,486	11,905
2081	Bottled soft drinks.....	50	6	534	1,668	266	599	682	3,211	5,765	(D)	(D)	(D)
2082	Beer and ale.....	4	3	856	3,992	611	1,213	2,596	10,986	21,559	(D)	(D)	(D)
209	Miscellaneous Foods.....	45	17	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2097	Manufactured ice.....	9	2	102	322	82	183	249	474	637	31	362	1,459
2099	Food preparations, n.e.c.....	29	13	2,146	6,998	1,733	3,871	4,604	12,138	92,363	624	1,675	5,490
22	Textile mill products.....	1	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
23	Apparel and related products.....	35	16	1,493	3,502	1,317	2,516	2,733	6,723	( <sup>2</sup> )	124	1,224	4,167
232	Men's and boys' furnishings..	8	6	295	636	274	479	541	945	( <sup>2</sup> )	4	507	1,203
2321	Men's dress shirts & nightwear.	4	4	164	336	150	249	268	465	1,026	3	(D)	(D)
239	Fabricated textiles, n.e.c....	16	4	393	1,249	299	596	802	2,260	( <sup>2</sup> )	53	461	2,341
24	Lumber and wood products...	45	15	1,126	3,558	921	1,870	2,578	4,604	( <sup>2</sup> )	88	( <sup>3</sup> )	( <sup>3</sup> )
243	Millwork and related products	24	10	517	1,818	392	809	1,229	2,271	( <sup>2</sup> )	53	342	1,101
244	Wooden containers.....	8	3	225	576	196	355	440	918	( <sup>2</sup> )	20	(D)	(D)
25	Furniture and fixtures.....	42	9	1,025	3,793	841	1,697	2,522	6,467	( <sup>2</sup> )	151	962	3,886
251	Household furniture.....	22	6	535	2,101	455	891	1,398	3,636	( <sup>2</sup> )	96	(D)	(D)
2515	Mattresses and bedsprings.....	5	2	111	484	90	180	282	813	1,973	(D)	142	1,471
2541	Partitions and fixtures.....	8	1	357	1,320	280	581	869	2,250	4,080	41	407	1,462
26	Pulp, paper and products...	9	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
27	Printing and publishing....	364	40	4,816	18,286	2,966	5,788	10,462	32,881	( <sup>2</sup> )	1,580	4,049	21,445
2711	Newspapers.....	200	17	2,527	9,577	1,427	2,850	5,262	19,331	26,674	905	2,265	12,838
2721	Periodicals.....	12	2	199	712	95	183	358	1,562	1,968	48	(D)	(D)
2751	Commercial printing.....	97	14	1,355	5,199	963	1,908	3,275	7,974	13,116	428	783	3,529
279	Printing trade services.....	13	...	107	517	77	146	384	827	( <sup>2</sup> )	19	(D)	(D)
28	Chemicals and products.....	70	22	1,645	6,454	1,166	2,492	3,958	14,834	( <sup>2</sup> )	(D)	1,456	10,926
283	Drugs and medicines.....	15	8	447	1,897	294	613	920	5,872	( <sup>2</sup> )	162	635	4,338
2831	Biological products.....	6	4	188	735	154	337	507	1,880	4,051	(D)	200	1,118
2834	Pharmaceutical preparations....	9	4	259	1,162	140	276	413	3,992	6,018	(D)	435	3,220
287	Fertilizers.....	11	3	147	648	120	311	460	1,247	( <sup>2</sup> )	348	(D)	(D)
288	Vegetable and animal oils....	19	4	262	902	187	422	603	2,355	( <sup>2</sup> )	(D)	262	3,047
289	Chemical products, n.e.c.....	13	3	200	770	111	224	337	1,049	( <sup>2</sup> )	177	(D)	(D)
29	Petroleum and coal products	4	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	200	1,084
30	Rubber products.....	4	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
31	Leather and leather products.....	4	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
32	Stone, clay and glass products.....	53	16	1,355	4,955	1,095	2,333	3,543	15,165	( <sup>2</sup> )	907	993	5,632
325	Structural clay products.....	6	4	178	557	157	342	459	1,018	1,272	131	(D)	(D)
3251	Brick and hollow tile.....	6	4	178	557	157	342	459	1,018	1,272	131	(D)	(D)
327	Concrete and plaster products	33	7	599	2,223	428	975	1,318	5,401	9,932	386	360	1,466
3271	Concrete products.....	33	7	599	2,223	428	975	1,318	5,401	9,932	386	360	1,466
329	Nonmetallic mineral products, n.e.c.....	5	...	25	67	18	33	44	305	( <sup>2</sup> )	(D)	(D)	(D)
33	Primary metal industries...	15	6	643	2,527	523	1,027	1,846	5,988	( <sup>2</sup> )	115	(D)	(D)
332	Iron and steel foundries.....	6	2	122	395	110	178	296	610	1,032	10	(D)	(D)
3321	Gray-iron foundries.....	6	2	122	395	110	178	296	610	1,032	10	311	1,010
34	Fabricated metal products..	78	18	2,652	10,653	2,023	4,433	7,081	17,345	( <sup>2</sup> )	2,525	1,457	7,498
342	Cutlery, tools, and hardware.	7	2	208	720	182	379	520	1,303	( <sup>2</sup> )	11	215	991
344	Structural metal products....	49	12	1,890	7,935	1,386	3,090	5,142	12,693	( <sup>2</sup> )	507	935	4,838
3441	Structural & ornamental work...	19	7	1,258	5,616	922	2,146	3,671	8,351	17,309	268	350	2,079
349	Metal products, n.e.c.....	8	1	225	724	201	396	550	1,015	( <sup>2</sup> )	73	(D)	(D)

See footnotes at end of table.

Table 4.--GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947--Continued  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954										1947	
		Establish- ments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
35	Machinery, except electri- cal.....	100	28	3,142	11,622	2,518	5,363	8,719	19,795	( <sup>2</sup> )	1,410	2,547	10,462
352	Tractors and farm machinery..	42	12	758	2,615	620	1,277	1,938	4,681	( <sup>2</sup> )	225	1,418	5,513
3522	Farm machinery (exc. tractors).	36	10	663	2,336	540	1,146	1,750	4,174	9,910	184	(D)	(D)
356	General industrial machinery.	10	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3561	Pumps and compressors.....	5	4	1,308	4,911	1,071	2,291	3,802	8,354	16,076	784	(D)	(D)
3563	Conveyors.....	3	2	385	1,499	278	615	1,038	1,919	4,025	95	(D)	(D)
359	Miscellaneous machine parts..	29	4	316	1,167	276	583	994	2,179	( <sup>2</sup> )	(D)	(D)	(D)
3599	Machine shops.....	26	3	240	947	207	447	806	1,787	2,939	(D)	(D)	(D)
36	Electrical machinery.....	13	7	2,227	7,597	1,925	3,904	6,077	17,969	( <sup>2</sup> )	336	2,196	10,698
366	Communication equipment.....	7	5	1,966	6,793	1,715	3,481	5,474	16,401	( <sup>2</sup> )	(D)	(D)	(D)
37	Transportation equipment...	21	8	1,255	4,802	987	1,951	3,351	7,129	( <sup>2</sup> )	276	1,584	6,074
371	Motor vehicles and equipment.	18	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3713	Truck and bus bodies.....	7	1	141	514	111	219	365	752	1,422	8	203	634
3716	Automobile trailers.....	5	2	159	529	135	280	430	876	3,075	93	(D)	(D)
3717	Motor vehicles and parts.....	4	3	417	1,501	347	681	1,115	2,288	( <sup>2</sup> )	120	(D)	(D)
38	Instruments and related products.....	11	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
384	Medical equipment and supplies.....	4	2	208	642	178	318	480	879	( <sup>2</sup> )	(D)	(D)	(D)
39	Miscellaneous manufactures <sup>4</sup>	70	18	6,057	21,744	5,040	9,839	16,886	34,909	( <sup>2</sup> )	1,051	1,199	4,266
398 399	Miscellaneous manufactures <sup>4</sup> ..	40	12	5,375	19,974	4,449	8,593	15,517	31,673	( <sup>2</sup> )	795	854	3,178
3981	Brooms and brushes.....	7	2	279	595	249	440	460	860	1,558	18	377	877
1900	Ordinance and accessories.....	6	5	4,826	18,489	3,987	7,747	14,460	29,218	( <sup>2</sup> )	753	(D)	(D)

NOTE: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industries (4-digit) and industry groups (3-digit) are not shown. Industries and industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "all industries" line.

<sup>2</sup>The total value of shipments figures for industry groups and a few individual industries have not been published due to the extensive and unmeasurable duplication arising from shipments from one establishment to another in the same industry classification. (See Introduction.)

<sup>3</sup>Comparable data are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude establishments in S.I.C. Industry 2411, Logging Camps and Contractors, which are included in the scope of the 1954 Census; the 1947 Census also excludes plants processing and distributing fluid milk which in 1954 were classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	All industries except subgroups 202 and 2411, total.....	53,725	370,952	45,603	253,475
20	Food and kindred products except subgroup 202, Dairy products.....	24,485	174,469	23,743	149,093
24	Lumber and wood products except Industry 2411, Logging camps and contractors.....	1,100	4,500	501	1,439

<sup>4</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordinance and Accessories." (Establishments which are Government-owned and operated are not included.)

Table 5.--GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUPS: 1954 AND 1947  
(This State contained no standard metropolitan area with 40,000 or more manufacturing employees in 1954 or 1947)

## MANUFACTURES—AREA STATISTICS

Table 6.—GENERAL STATISTICS FOR PRINCIPAL INDUSTRIAL COUNTIES, BY MAJOR INDUSTRY GROUP: 1954 AND 1947

(Principal industrial counties include all counties with 20,000 or more manufacturing employees. For explanation of column captions see Introduction)

Code	Major industry group	1954								1947	
		Establish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendit- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
		DOUGLAS COUNTY									
	All industries, total <sup>1</sup> ....	470	28,510	114,689	21,270	44,259	79,810	202,260	11,421	<sup>2</sup> 25,887	<sup>2</sup> 159,758
20	Food and kindred products....	112	17,711	73,811	13,006	27,625	52,515	127,485	5,654	16,219	108,348
23	Apparel and related products....	16	883	2,241	748	1,419	1,649	4,797	85	924	3,539
24	Lumber and wood products.....	18	339	1,032	266	480	676	1,477	36	261	654
25	Furniture and fixtures.....	27	611	2,297	515	1,003	1,553	3,969	111	536	2,419
26	Pulp, paper and products.....	6	367	1,478	289	653	958	2,877	193	337	(D)
27	Printing and publishing.....	94	2,022	8,814	1,268	2,418	4,985	16,661	833	1,609	11,019
32	Stone, clay, & glass products	17	248	1,052	168	386	544	2,014	81	259	1,364
34	Fabricated metal products....	41	1,650	6,850	1,214	2,543	4,473	11,116	2,221	928	4,693
35	Machinery, except electrical.	40	1,506	5,843	1,262	2,612	4,655	8,941	862	931	4,362
37	Transportation equipment.....	11	631	2,297	515	1,021	1,706	3,640	188	402	(D)

D Withheld to avoid disclosing data for individual companies.

<sup>1</sup>In order to avoid disclosing data for individual companies, the statistics for some industry groups are not shown. Industry groups reporting less than 100 employees are also omitted. They are included, however, in the "All industries" line.<sup>2</sup>The 1954 and 1947 "All industries" totals are not strictly comparable because of differences in coverage of loggers and fluid milk distributors. See discussion in Introduction and footnote to Table 4 for comparable figures at the State level.



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20 Food and kindred products	26 Pulp, paper and products	32 Stone, clay, and glass products	38 Instruments and related products
21 Tobacco manufactures	27 Printing and publishing	33 Primary metal industries	39 Miscellaneous manufactures (Includes Group 19 Ordnance and accessories)
22 Textile mill products	28 Chemicals and products	34 Fabricated metal products	
23 Apparel and related products	29 Petroleum and coal products	35 Machinery, except electrical	
24 Lumber and wood products	30 Rubber products	36 Electrical machinery	
25 Furniture and fixtures	31 Leather and leather goods	37 Transportation equipment	

(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establish- ments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Nebraska, total.....	1,423	484	...	1	35	45	42	9	364	70	4	4	4	53	15	78	100	13	21	11	70
1 to 4 employees.....	567	146	...	...	11	18	16	1	215	23	...	1	1	21	4	28	37	3	7	4	31
5 to 9 employees.....	277	100	...	...	4	6	7	...	76	18	1	1	1	9	2	14	24	...	...	3	11
10 to 19 employees.....	201	78	...	...	4	6	10	3	33	7	1	...	1	7	3	18	11	3	6	...	10
20 to 49 employees.....	172	68	...	1	8	8	4	1	23	12	2	...	1	8	2	7	13	1	2	2	9
50 to 99 employees.....	107	42	...	...	5	6	3	3	10	8	...	...	...	5	3	3	10	2	3	1	3
100 to 249 employees.....	58	33	...	...	1	...	1	1	4	1	...	1	...	2	...	5	2	2	2	1	2
250 to 499 employees.....	24	9	...	...	2	1	1	...	2	1	...	...	...	1	1	2	2	...	1	...	1
500 to 999 employees.....	8	3	...	...	...	...	...	...	1	...	...	1	...	...	...	1	1	1	...	...	1
1,000 to 2,499 employees.....	8	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
2,500 employees or more.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Adams:																					
1 to 19 employees.....	23	8	...	...	1	...	1	...	5	...	...	...	...	...	1	2	1	...	1	...	3
20 to 99 employees.....	12	3	...	...	1	...	...	1	1	...	...	...	...	1	1	2	1	...	...	...	1
100 employees and over.....	2	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
Antelope:																					
1 to 19 employees.....	8	1	...	...	...	...	...	...	5	...	...	...	...	...	...	...	2	...	...	...	...
Arthur:																					
20 to 99 employees.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...
Boone:																					
1 to 19 employees.....	5	2	...	...	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...
Box Butte:																					
1 to 19 employees.....	10	6	...	...	...	...	...	...	3	...	...	...	...	...	...	...	1	...	...	...	...
20 to 99 employees.....	2	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
Boyd:																					
1 to 19 employees.....	2	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
Brown:																					
1 to 19 employees.....	5	3	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1	...	...
Buffalo:																					
1 to 19 employees.....	18	9	...	...	1	...	...	...	4	...	...	...	...	1	...	...	2	1	...	...	...
20 to 99 employees.....	6	2	...	1	...	1	...	...	1	...	...	...	...	...	...	...	...	...	1	...	...
Burt:																					
1 to 19 employees.....	7	4	...	...	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...
Butler:																					
1 to 19 employees.....	5	3	...	...	...	...	...	...	1	...	...	...	...	...	...	1	...	...	...	...	...
Cass:																					
1 to 19 employees.....	3	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	1	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Cedar:																					
1 to 19 employees.....	7	2	...	...	...	...	...	...	4	1	...	...	...	...	...	...	...	...	...	...	...
Chase:																					
1 to 19 employees.....	6	2	...	...	1	...	...	...	2	...	...	...	...	...	...	...	1	...	...	...	...
Cherry:																					
1 to 19 employees.....	4	2	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...
Cheyenne:																					
1 to 19 employees.....	6	2	...	...	...	1	...	...	2	...	...	...	...	1	...	...	...	...	...	...	...
Clay:																					
1 to 19 employees.....	5	1	...	...	...	...	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...
Colfax:																					
1 to 19 employees.....	12	6	...	...	...	...	...	...	6	...	...	...	...	...	...	...	...	...	...	...	...
Cuming:																					
1 to 19 employees.....	9	4	...	...	...	...	...	...	3	2	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Custer:																					
1 to 19 employees.....	16	7	...	...	...	...	...	...	7	...	...	...	...	1	...	...	...	...	...	...	1
Dakota:																					
1 to 19 employees.....	6	1	...	...	...	...	...	...	2	...	...	...	...	1	...	1	1	...	...	...	...
20 to 99 employees.....	2	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	1	...	...	...	...
Daves:																					
1 to 19 employees.....	10	5	...	...	...	...	...	...	3	...	1	...	...	...	...	1	...	...	...	...	...
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Dawson:																					
1 to 19 employees.....	23	16	...	...	...	...	...	...	5	2	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	12	11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Deuel:																					
1 to 19 employees.....	3	...	...	...	...	...	...	...	2	...	...	...	...	1	...	...	...	...	...	...	...
Dixon:																					
1 to 19 employees.....	4	1	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	1	...	...
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Dodge:																					
1 to 19 employees.....	34	17	...	...	2	...	1	...	6	3	...	...	...	3	...	...	...	...	2	...	...
20 to 99 employees.....	8	2	...	...	1	...	...	...	2	1	...	...	...	2	...	...	...	...	...	...	...
100 employees and over.....	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Douglas:																					
1 to 19 employees.....	301	43	...	...	8	14	20	2	78	20	1	1	2	13	3	33	28	1	6	4	24
20 to 99 employees.....	121	41	...	...	6	4	6	3	12	10	1	...	1	4	3	4	10	2	3	2	9
100 employees and over.....	48	28	...	...	2	...	1	1	4	1	...	1	...	...	1	4	2	...	2	...	1
Dundy:																					
1 to 19 employees.....	2	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...



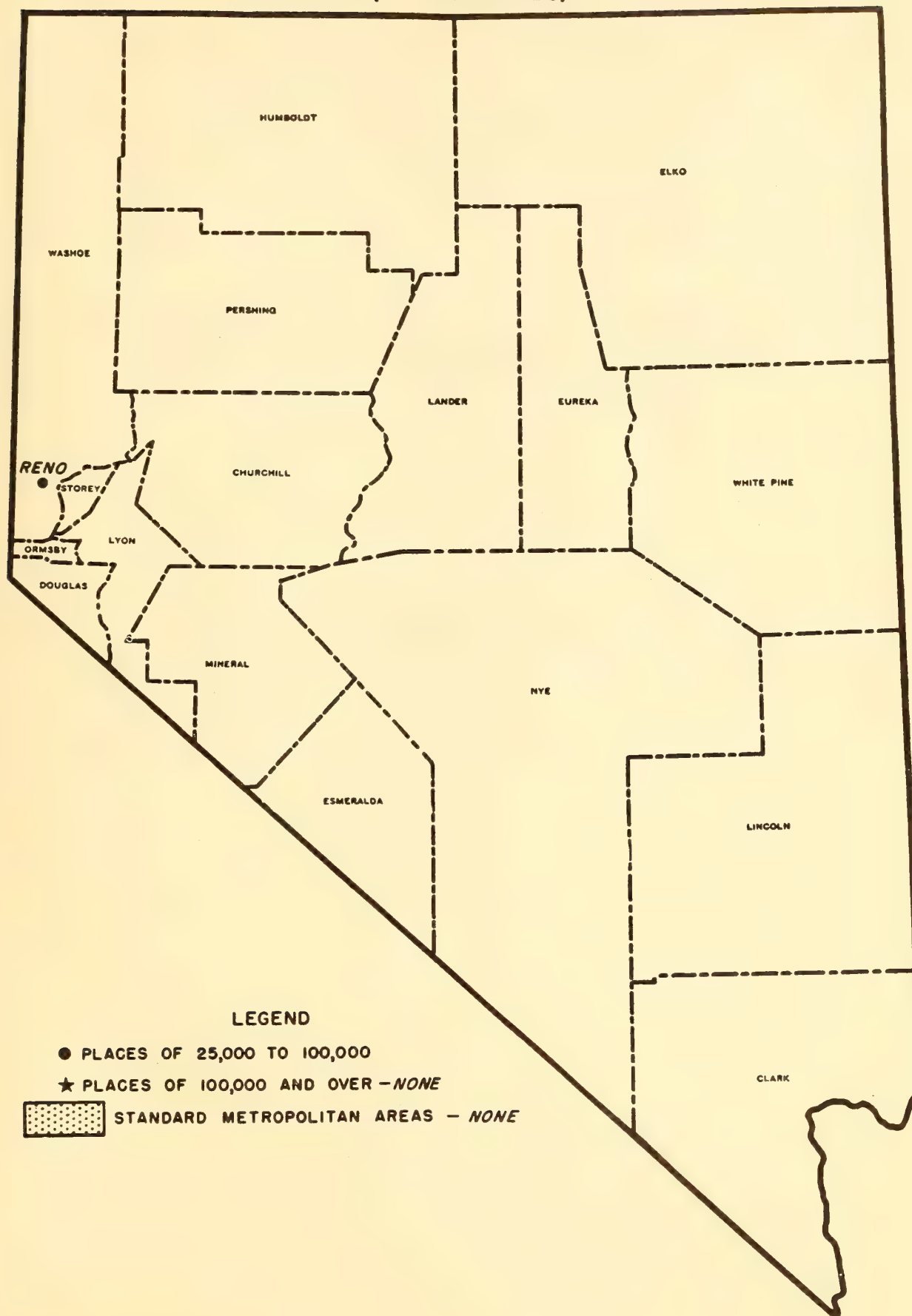
Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954—Continued  
(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establish- ments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Pawnee:																					
1 to 19 employees.....	2	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Perkins:																					
1 to 19 employees.....	2	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Phelps:																					
1 to 19 employees.....	8	4	...	...	...	...	...	...	...	...	...	...	...	1	...	...	1	1	1	...	...
20 to 99 employees.....	3	2	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Pierce:																					
1 to 19 employees.....	9	5	...	...	...	...	...	...	2	...	...	...	...	1	...	...	1	...	...	...	...
Platte:																					
1 to 19 employees.....	22	8	...	...	...	...	1	...	4	1	...	...	1	...	...	1	4	1	...	...	1
20 to 99 employees.....	9	1	...	...	1	1	...	...	1	...	...	...	...	...	...	...	5	...	...	...	...
100 employees and over.....	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	...	1	...
Polk:																					
1 to 19 employees.....	4	1	...	...	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...
Redwillow:																					
1 to 19 employees.....	8	4	...	...	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	1
20 to 99 employees.....	4	2	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...
Richardson:																					
1 to 19 employees.....	11	5	...	...	...	...	...	...	4	1	...	...	...	...	...	...	1	...	...	...	...
20 to 99 employees.....	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Rock:																					
1 to 19 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Saline:																					
1 to 19 employees.....	7	1	...	...	...	...	1	...	4	...	...	...	...	...	...	...	...	...	...	...	1
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	3	2	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...
Sarpy:																					
1 to 19 employees.....	3	1	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	3	...	...	...	...	...	1	...	...	2	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
Saunders:																					
1 to 19 employees.....	8	4	...	...	...	...	...	...	2	1	...	...	...	...	...	1	...	...	...	...	...
20 to 99 employees.....	2	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Scotts Bluff:																					
1 to 19 employees.....	33	14	...	...	...	3	1	...	5	1	...	...	...	2	1	2	2	...	...	...	2
20 to 99 employees.....	9	3	...	...	...	1	...	...	1	1	1	...	...	1	...	...	1	...	...	...	...
100 employees and over.....	4	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Seward:																					
1 to 19 employees.....	7	2	...	...	...	...	...	...	4	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sheridan:																					
1 to 19 employees.....	9	6	...	...	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...
Sherman:																					
1 to 19 employees.....	4	3	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Sioux:																					
1 to 19 employees.....	2	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Stanton:																					
1 to 19 employees.....	3	1	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...
Thayer:																					
1 to 19 employees.....	9	2	...	...	...	...	...	...	3	...	...	...	...	1	1	1	...	...	...	...	1
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Thurston:																					
1 to 19 employees.....	6	1	...	...	...	...	...	...	2	2	...	...	...	...	...	...	1	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Valley:																					
1 to 19 employees.....	6	4	...	...	...	...	...	...	1	...	...	...	...	...	...	1	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Washington:																					
1 to 19 employees.....	10	2	...	...	...	1	...	...	2	1	...	...	...	...	...	1	3	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
Wayne:																					
1 to 19 employees.....	2	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	1	...	...	...	...
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Webster:																					
1 to 19 employees.....	2	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
York:																					
1 to 19 employees.....	9	2	...	...	...	...	...	...	5	...	...	...	...	1	...	...	1	...	...	...	...
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...





NEVADA  
(17 COUNTIES)



## MANUFACTURES—AREA STATISTICS

Table 1.—MANUFACTURING EMPLOYMENT AT OPERATING ESTABLISHMENTS AND CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARIES FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS

(This table includes data for all manufacturing employees including those located in central administrative offices and auxiliaries. Tables 2-7 in this report include data for operating establishments only. For explanation of column captions see Introduction)

State, standard metropolitan areas, and year <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	(Number)	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
Nevada:						
1954.....	5,717	25,301	5,717	25,301	(3)	(3)
1953 <sup>2</sup> .....	6,525	29,024	6,525	29,024	(3)	(3)
1952 <sup>2</sup> .....	3,337	13,681	3,337	13,681	(3)	(3)
1951 <sup>2</sup> .....	2,906	10,511	2,906	10,511	(3)	(3)
1950 <sup>2</sup> .....	3,038	11,508	2,856	10,984	182	524
1949 <sup>2</sup> .....	3,240	10,966	3,207	10,862	33	104
Standard metropolitan areas: (None in this State)						

<sup>1</sup>Employment data for administrative offices and auxiliaries on a State basis are not available for the years prior to 1949.<sup>2</sup>The employment figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period. The employment figures for administrative and auxiliary units were compiled chiefly from Bureau of Old-Age and Survivors Insurance records and are not strictly comparable with the figures for these units that were collected by the Bureau of the Census for the year 1954.<sup>3</sup>The administrative and auxiliary unit employment figures are included with the operating manufacturing establishments.



## NEVADA

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Table 2.—GENERAL STATISTICS FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Year	Establish- ments, number	All employees		Production workers		Value added by manufacture (\$1,000)	
		Number	Payroll (\$1,000)	Number	Wages (\$1,000)		
NEVADA							
1954 <sup>1</sup> .....	177    (NA)	{	5,717	25,301	4,426	18,480	62,672
1953 <sup>2</sup> .....			6,525	29,024	4,723	20,891	67,306
1952 <sup>2</sup> .....			3,337	13,681	2,268	8,570	34,694
1951 <sup>2</sup> .....			2,906	10,511	1,825	6,763	27,373
1950 <sup>2</sup> .....			2,856	10,984	1,498	6,197	28,670
1949 <sup>2</sup> .....	126 94 84 83	{	3,207	10,862	2,148	7,415	19,204
1947.....			2,667	8,409	2,064	6,416	17,286
1939.....			1,461	2,357	1,025	1,558	11,493
1937.....			1,262	2,059	1,012	1,625	10,930
1935.....			1,452	2,193	1,224	1,694	7,319
1933.....	86	(NA)	(NA)	1,417	1,763	3,918	
1931.....	108	(NA)	(NA)	1,562	2,516	3,835	
1929.....	123	2,564	4,399	2,200	3,585	8,065	
1927.....	116	(NA)	(NA)	2,419	3,915	12,375	
1925.....	102	(NA)	(NA)	2,670	4,474	9,542	
1923.....	104	(NA)	(NA)	3,365	5,348	9,855	
1921.....	107	(NA)	(NA)	2,393	4,020	5,475	
1919.....	149	3,371	4,810	3,074	4,239	6,238	
1914.....	180	3,934	4,049	3,655	3,578	6,766	
1909.....	177	2,513	2,360	2,257	1,982	3,521	
1904.....	115	908	820	802	693	1,468	
1899.....	99	541	387	504	353	599	
STANDARD METROPOLITAN AREA (None in this State)							

NA Not available.

<sup>1</sup>The 1954 figures include data for establishments engaged in the processing and distribution of fluid milk, Industry Group 202, Dairy Products. These establishments were not included in the figures for the Annual Survey years 1949-1953 or earlier Census years. In addition, the 1954 Census and Annual Survey years include data for Logging Camps and Contractors, Industry 2411, which were not included within the scope of the 1947 Census. See footnotes to Table 4 for comparable 1954 and 1947 totals. There were also a number of changes in the definition of manufacturing industries during earlier Census years that affect the comparability of the historical series. Among the more important of these were: figures for 1935 and later years exclude data for "Railroad repair shops" and "Manufactured gas" which were included in 1899-1933 figures; the minimum size of establishment included for 1954 and 1947 was one employee, for 1939-1921 manufacturing establishments reporting value of shipments of \$5,000 or more were within scope whereas for 1919 and earlier years the cutoff was \$500. (This change in procedure has not appreciably affected the comparability of the historical data except for the figures on number of establishments.)

<sup>2</sup>The employment and payroll figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period.

## MANUFACTURES—AREA STATISTICS

Table 3.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
Nevada, total.....	160,083	177	5,717	25,301	4,426	9,074	18,480	62,672	4,850	(1)	(1)
STANDARD METROPOLITAN AREAS (None in this State)											
COUNTIES											
Churchill.....	6,161	10	45	171	33	77	123	351	23	53	(D)
Clark.....	48,289	59	3,109	13,835	2,322	4,805	9,837	39,169	3,775	915	6,616
Douglas.....	2,029	5	55	234	36	52	102	637	55	38	(D)
Elko.....	11,654	8	52	142	33	56	92	212	(D)	(D)	(D)
Esmeralda.....	614	...	...	...	...	...	...	...	...	...	...
Eureka.....	896	...	...	...	...	...	...	...	...	...	...
Humboldt.....	4,838	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Lander.....	1,850	...	...	...	...	...	...	...	...	...	...
Lincoln.....	3,837	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Lyon.....	3,679	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	26	(D)
Mineral.....	5,560	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Nye.....	3,101	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	8	25
Ormsby.....	4,172	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Pershing.....	3,103	3	5	18	4	8	15	48	14	(D)	(D)
Storey.....	671	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...	...
Washoe.....	50,205	75	1,666	7,503	1,327	2,724	5,438	13,974	693	1,202	6,015
White Pine.....	9,424	4	530	(D)	464	(D)	(D)	(D)	(D)	354	(D)
CITIES WITH 10,000 INHAB- ITANTS OR MORE											
Las Vegas.....	24,624	41	786	2,967	533	1,120	1,903	6,384	612	(NA)	(NA)
Reno.....	32,497	57	694	3,268	448	895	1,819	5,389	335	729	3,969

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>The 1947 data are not strictly comparable with the figures shown for 1954 due to differences in coverages of loggers and fluid milk distributors.  
See discussion in Introduction and footnotes to Table 4.

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establish- ments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
	All industries, total <sup>1</sup> ...	177	42	5,717	25,301	4,426	9,074	18,480	62,672	( <sup>2</sup> )	4,850	( <sup>3</sup> )	( <sup>3</sup> )
20	Food and kindred products..	57	13	826	3,171	533	1,009	1,735	7,484	( <sup>2</sup> )	748	( <sup>3</sup> )	( <sup>3</sup> )
202	Dairy products.....	18	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2027	Fluid milk and other products..	12	5	341	1,340	218	442	739	3,574	8,190	297	( <sup>3</sup> )	( <sup>3</sup> )
205	Bakery products.....	12	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2051	Bread and related products....	12	3	156	664	112	216	384	1,163	2,260	264	137	603
208	Beverages.....	10	3	132	398	72	93	174	805	( <sup>2</sup> )	23	104	692
23	Apparel and related prod- ucts.....	4	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
24	Lumber and wood products...	20	5	539	2,373	495	975	2,051	3,462	( <sup>2</sup> )	96	( <sup>3</sup> )	( <sup>3</sup> )
2421	Sawmills and planing mills...	6	1	137	641	126	248	568	1,400	2,724	(D)	(D)	(D)
243	Millwork and related products	10	4	384	1,660	353	698	1,432	1,925	( <sup>2</sup> )	64	401	1,579
25	Furniture and fixtures.....	9	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...	...
27	Printing and publishing....	34	4	634	2,628	396	845	1,602	4,847	( <sup>2</sup> )	199	407	2,352
2711	Newspapers.....	19	3	522	2,062	316	673	1,200	4,041	4,751	159	334	1,858
28	Chemicals and products.....	5	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	379	3,115
32	Stone, clay and glass prod- ucts.....	18	10	945	4,479	802	1,763	3,581	9,696	( <sup>2</sup> )	855	407	2,942
327	Concrete and plaster products	15	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3271	Concrete products.....	10	2	104	468	85	162	337	933	1,639	67	37	(D)
33	Primary metal industries...	3	3	1,555	7,110	1,207	2,430	5,366	22,158	( <sup>2</sup> )	2,294	(D)	(D)
34	Fabricated metal products..	8	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
35	Machinery, except electri- cal.....	3	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
36	Electrical machinery.....	1	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...	...
37	Transportation equipment...	2	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
38	Instruments and related products.....	1	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...	...
39	Miscellaneous manufactures.	12	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
398 399	Miscellaneous manufactures...	7	1	71	306	53	90	206	384	( <sup>2</sup> )	43	(D)	(D)

NOTE: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industries (4-digit) and industry groups (3-digit) are not shown. Industries and industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "all industries" line.

<sup>2</sup>The total value of shipments figures for industry groups and a few individual industries have not been published due to the extensive and unmeasurable duplication arising from shipments from one establishment to another in the same industry classification. (See Introduction.)

<sup>3</sup>Comparable data are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude establishments in S.I.C. Industry 2411, Logging Camps and Contractors, which are included in the scope of the 1954 Census; the 1947 Census also excludes plants processing and distributing fluid milk which in 1954 were classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	All industries except subgroups 202 and 2411, total.....	5,273	58,126	2,632	16,977
20	Food and kindred products except subgroup 202, Dairy products.....	400	3,000	600	3,000
24	Lumber and wood products except Industry 2411, Logging camps and contractors.....	521	3,400	405	(D)

Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUPS: 1954 AND 1947  
(This State contained no standard metropolitan area with 40,000 or more manufacturing employees in 1954 or 1947)

Table 6.—GENERAL STATISTICS FOR PRINCIPAL INDUSTRIAL COUNTIES (THOSE WITH 20,000 OR MORE MANUFACTURING EMPLOYEES), BY MAJOR INDUSTRY GROUPS: 1954 AND 1947

(This State contained no county with 20,000 or more manufacturing employees in 1954 and 1947)



## MANUFACTURES—AREA STATISTICS

Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954

20 Food and kindred products	26 Pulp, paper and products	32 Stone, clay, and glass products	38 Instruments and related products
21 Tobacco manufactures	27 Printing and publishing	33 Primary metal industries	39 Miscellaneous manufactures (Includes Group 19)
22 Textile mill products	28 Chemicals and products	34 Fabricated metal products	Ordnance and accessories)
23 Apparel and related products	29 Petroleum and coal products	35 Machinery, except electrical	
24 Lumber and wood products	30 Rubber products	36 Electrical machinery	
25 Furniture and fixtures	31 Leather and leather goods	37 Transportation equipment	

(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Nevada, total.....	177	57	...	...	4	20	9	...	34	5	...	...	...	18	3	8	3	1	2	1	12
1 to 4 employees.....	79	22	...	...	4	8	7	...	13	...	...	...	...	7	...	4	2	1	1	1	9
5 to 9 employees.....	30	12	...	...	...	5	2	...	7	1	...	...	...	...	...	1	...	...	...	...	2
10 to 19 employees.....	26	10	...	...	...	2	...	...	10	1	...	...	...	1	...	1	1	...	...	...	...
20 to 49 employees.....	20	9	...	...	...	2	...	...	1	1	...	...	...	4	...	2	...	...	...	...	1
50 to 99 employees.....	10	4	...	...	...	2	...	...	1	...	...	...	...	3	...	...	...	...	...	...	...
100 to 249 employees.....	6	...	...	...	...	1	...	...	2	...	...	...	...	2	1	...	...	...	...	...	...
250 to 499 employees.....	5	...	...	...	...	...	...	...	...	2	...	...	...	1	1	...	...	...	1	...	...
500 to 999 employees.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...
Churchill:																					
1 to 19 employees.....	10	4	...	...	...	...	1	...	3	...	...	...	...	1	...	...	...	...	...	...	1
Clark:																					
1 to 19 employees.....	38	14	...	...	1	2	2	...	6	...	...	...	...	3	...	1	2	...	1	...	6
20 to 99 employees.....	15	5	...	...	...	...	...	...	2	1	...	...	...	4	...	2	...	...	...	...	1
100 employees and over.....	6	...	...	...	...	...	...	...	1	2	...	...	...	1	2	...	...	...	...	...	...
Douglas:																					
1 to 19 employees.....	4	1	...	...	...	2	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Elko:																					
1 to 19 employees.....	8	5	...	...	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...
Humboldt:																					
1 to 19 employees.....	2	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Lincoln:																					
1 to 19 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Lyon:																					
1 to 19 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Mineral:																					
1 to 19 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Nye:																					
1 to 19 employees.....	3	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1
20 to 99 employees.....	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Ormsby:																					
1 to 19 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Pershing:																					
1 to 19 employees.....	3	2	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Storey:																					
1 to 19 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Washoe:																					
1 to 19 employees.....	60	14	...	...	3	11	6	...	9	2	...	...	...	4	...	5	1	1	...	1	3
20 to 99 employees.....	11	6	...	...	...	4	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	4	...	...	...	...	1	...	...	1	...	...	...	...	1	...	...	...	...	1	...	...
White Pine:																					
1 to 19 employees.....	2	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...








# NEW HAMPSHIRE (10 COUNTIES)

## LEGEND

● PLACES OF 25,000 TO 100,000 (1950)

★ PLACES OF 100,000 AND OVER (1950)-*NONE*

 STANDARD METROPOLITAN AREA

## STANDARD METROPOLITAN AREA

CODE

087 MANCHESTER



## MANUFACTURES—AREA STATISTICS

Table 1.—MANUFACTURING EMPLOYMENT AT OPERATING ESTABLISHMENTS AND CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARIES FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS

(This table includes data for all manufacturing employees including those located in central administrative offices and auxiliaries. Tables 2-7 in this report include data for operating establishments only. For explanation of column captions see Introduction)

State, standard metropolitan areas, and year <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	(Number)	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
New Hampshire:						
1954.....	77,332	246,719	77,071	245,346	261	1,373
1953 <sup>2</sup> .....	88,771	272,833	87,866	270,025	905	2,808
1952 <sup>2</sup> .....	84,677	257,287	83,856	254,307	<sup>3</sup> 821	<sup>3</sup> 2,980
1951 <sup>2</sup> .....	85,851	246,864	85,030	243,884	821	2,980
1950 <sup>2</sup> .....	80,832	213,519	80,462	212,507	370	1,012
1949 <sup>2</sup> .....	77,924	193,581	76,975	191,437	949	2,144
1954						
Standard metropolitan areas:						
Manchester <sup>4</sup> .....	18,702	56,999	18,698	56,947	4	52

<sup>1</sup>Employment data for administrative offices and auxiliaries on a State basis are not available for the years prior to 1949. Similar data for standard metropolitan areas are available only for 1954.<sup>2</sup>The employment figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period. The employment figures for administrative and auxiliary units were compiled chiefly from Bureau of Old-Age and Survivors Insurance records and are not strictly comparable with the figures for these units that were collected by the Bureau of the Census for the year 1954.<sup>3</sup>The 1951 data are shown for 1952 since auxiliary and administrative unit data were not collected in 1952.<sup>4</sup>The Manchester Standard Metropolitan Area consists of Manchester city and Goffstown town in Hillsborough County, New Hampshire.

## NEW HAMPSHIRE

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Table 2.—GENERAL STATISTICS FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Year	Establish- ments, number	All employees		Production workers		Value added by manufacture (\$1,000)		
		Number	Payroll (\$1,000)	Number	Wages (\$1,000)			
NEW HAMPSHIRE								
1954 <sup>1</sup> .....	1,609	{	77,071	245,346	65,987	190,760	408,826	
1953 <sup>2</sup> .....			87,866	270,025	77,589	221,870	427,126	
1952 <sup>2</sup> .....			83,856	254,307	74,062	206,676	413,181	
1951 <sup>2</sup> .....			85,030	243,884	75,466	197,658	407,474	
1950 <sup>2</sup> .....			(NA)	80,462	212,507	71,789	174,920	353,710
1949 <sup>2</sup> .....	1,124	{	76,975	191,437	67,639	154,303	309,636	
1947.....			74,752	177,479	66,448	145,324	306,932	
1939.....			61,224	65,154	55,434	52,394	104,153	
1937.....			794	61,336	65,708	55,517	55,235	105,309
1935.....			775	58,521	56,966	53,833	47,812	90,734
1933.....	678	(NA)	(NA)	49,255	38,784	76,394		
1931.....	851	(NA)	(NA)	53,048	51,810	97,502		
1929.....	1,075	71,233	85,264	65,511	70,514	147,132		
1927.....	1,028	{	{	65,482	72,803	145,422		
1925.....	1,038			(NA)	(NA)	66,658	71,725	135,147
1923.....	1,078			75,314	79,074	147,370		
1921.....	1,122	{	{	67,416	67,893	107,078		
1919.....	1,451			88,726	92,330	82,917	79,136	167,329
1914.....	1,733			83,355	46,518	78,981	40,636	67,839
1909.....	1,961			82,177	40,391	78,658	36,200	66,424
1904.....	1,618	68,032	30,665	65,366	27,693	50,395		
1899.....	1,771	69,714	28,049	67,646	25,850	47,427		
STANDARD METROPOLITAN AREAS (None with 40,000 or more manufacturing employees in this State)								

NA Not available.

<sup>1</sup>The 1954 figures include data for establishments engaged in the processing and distribution of fluid milk, Industry Group 202, Dairy Products. These establishments were not included in the figures for the Annual Survey years 1949-1953 or earlier Census years. In addition, the 1954 Census and Annual Survey years included data for Logging camps and contractors, Industry 2411, which were not included within the scope of the 1947 Census. See footnotes to Table 4 for comparable 1954 and 1947 totals. There were also a number of changes in the definition of manufacturing industries during earlier Census years that affect the comparability of the historical series. Among the more important of these were: figures for 1935 and later years exclude data for "Railroad repair shops" and "Manufactured gas" which were included in 1899-1933 figures; the minimum size of establishment included for 1954 and 1947 was one employee, for 1939-1921 manufacturing establishments reporting value of shipments of \$5,000 or more were within scope whereas for 1919 and earlier years the cutoff was \$500. (This change in procedure has not appreciably affected the comparability of the historical data except for the figures on numbers of establishments.)

<sup>2</sup>The employment and payroll figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period.



## MANUFACTURES--AREA STATISTICS

Table 3.--GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947

(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
New Hampshire, total.....	533,242	1,609	77,071	245,346	65,987	128,465	190,760	408,826	18,492	( <sup>1</sup> )	( <sup>1</sup> )
STANDARD METROPOLITAN AREAS											
Manchester.....	88,370	214	18,698	56,947	16,353	30,554	45,153	92,808	2,529	(NA)	(NA)
COUNTIES											
Belknap.....	26,632	93	3,844	12,352	3,053	6,052	8,795	21,367	815	4,627	19,186
Carroll.....	15,868	93	816	2,126	719	1,472	1,681	3,105	151	679	(D)
Cheshire.....	38,811	152	6,006	20,603	5,179	10,443	15,823	34,971	1,328	5,566	24,001
Coos.....	35,932	111	5,297	18,515	4,559	9,331	15,274	33,288	3,310	3,939	(D)
Grafton.....	47,923	150	3,901	11,788	3,452	7,184	9,847	17,797	655	4,093	15,932
Hillsborough.....	156,987	438	31,616	100,005	27,149	51,724	77,223	166,355	6,272	31,845	132,176
Merrimack.....	63,022	190	5,648	17,997	4,907	9,819	14,712	26,660	1,177	6,354	26,135
Rockingham.....	70,059	165	5,852	17,448	5,114	9,726	13,546	28,229	2,406	4,235	13,119
Strafford.....	51,567	136	10,505	33,003	8,923	17,139	25,243	57,512	1,570	9,481	37,603
Sullivan.....	26,441	81	3,581	11,506	2,927	5,569	8,610	19,536	803	3,933	17,293
CITIES WITH 10,000 INHAB- ITANTS OR MORE											
Berlin.....	16,615	36	3,264	(D)	2,656	(D)	(D)	(D)	(D)	2,687	(D)
Claremont.....	12,811	41	2,642	8,791	2,090	3,954	6,317	14,922	675	2,726	13,815
Concord.....	27,988	51	2,678	9,878	2,319	4,720	8,120	13,824	498	1,930	8,408
Dover.....	15,874	38	3,291	10,292	2,690	5,170	7,303	15,362	583	2,415	10,652
Keene.....	15,638	56	2,746	10,425	2,230	4,615	7,302	18,556	652	2,871	11,574
Laconia.....	14,745	50	3,098	10,362	2,398	4,752	7,157	17,965	684	3,930	16,313
Manchester.....	82,732	207	18,740	57,135	16,393	30,657	45,283	92,771	2,518	18,796	72,178
Nashua.....	34,669	106	9,609	32,130	7,997	15,314	23,844	56,084	3,245	10,130	49,596
Portsmouth.....	18,830	23	865	2,398	791	1,451	2,038	4,396	82	399	1,052
Rochester.....	13,776	34	2,748	7,951	2,478	4,803	6,810	11,763	238	3,039	11,720

D Withheld to avoid disclosing figures for individual companies.

NA Not available

<sup>1</sup>The 1947 data are not strictly comparable with the figures shown for 1954 due to differences in coverage of loggers and fluid milk distributors.

See discussion in Introduction and footnotes to Table 4.

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establish- ments, number		All employees		Production workers			Value added by manufacture	Value of shipments	Capital expendi- tures, new	All employees, number	Value added by manufacture
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
	All industries, total <sup>1</sup> ...	1,609	497	77,071	245,346	65,987	128,465	190,760	408,826	( <sup>2</sup> )	18,492	( <sup>3</sup> )	( <sup>3</sup> )
20	Food and kindred products..	191	38	2,816	9,267	1,674	3,543	5,017	17,478	( <sup>2</sup> )	1,377	( <sup>3</sup> )	( <sup>3</sup> )
201	Meat products.....	22	7	457	1,608	383	807	1,366	2,752	( <sup>2</sup> )	230	328	1,499
202	Dairy products.....	97	13	1,008	3,163	450	987	1,339	6,004	( <sup>2</sup> )	633	( <sup>3</sup> )	( <sup>3</sup> )
2026	Fluid milk.....	42	1	178	468	123	258	333	791	3,030	144	( <sup>3</sup> )	( <sup>3</sup> )
2027	Fluid milk and other products..	43	11	740	2,408	279	637	890	4,152	13,183	412	( <sup>3</sup> )	( <sup>3</sup> )
204	Grain mill products.....	5	3	126	435	96	217	311	1,306	( <sup>2</sup> )	111	171	1,274
205	Bakery products.....	28	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2051	Bread and related products.....	28	6	652	2,389	356	794	1,132	4,188	7,592	99	829	4,015
2081	Bottled soft drinks.....	25	7	400	1,193	239	459	522	2,230	4,806	238	(D)	(D)
21	Tobacco manufactures.....	3	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	539	(D)
22	Textile mill products.....	112	84	13,762	43,609	12,468	24,826	36,428	67,799	( <sup>2</sup> )	1,921	20,310	85,099
221	Woolen and worsted manufac- ture.....	34	28	5,123	17,246	4,709	9,491	14,868	25,164	( <sup>2</sup> )	950	8,099	33,894
222	Yarn and thread mills.....	4	2	225	713	210	397	541	1,218	( <sup>2</sup> )	8	1,257	3,524
223	Broad-woven fabrics.....	14	13	4,138	13,560	3,826	7,648	11,723	22,559	( <sup>2</sup> )	332	8,128	36,952
2233	Cotton broad-woven fabrics.....	5	4	2,118	7,451	1,904	4,004	6,228	12,793	33,144	(D)	5,299	23,301
2234	Synthetic broad-woven fabrics..	9	9	2,019	6,108	1,921	3,644	5,494	9,766	24,447	(D)	2,829	13,651
2241	Narrow fabric mills.....	22	12	864	2,628	774	1,512	2,125	4,471	7,665	71	(D)	(D)
225	Knitting mills.....	25	19	2,167	5,654	1,903	3,610	4,195	8,353	( <sup>2</sup> )	396	1,564	5,281
2252	Seamless hosiery mills.....	11	8	497	1,208	443	813	909	1,735	3,718	198	630	1,936
2253	Knit outerwear mills.....	7	5	809	2,115	744	1,411	1,637	3,425	8,184	(D)	(D)	(D)
227	Carpets and rugs.....	4	3	137	402	115	231	296	572	( <sup>2</sup> )	(D)	(D)	(D)
2271	Wool carpets and rugs.....	4	3	137	402	115	231	296	572	( <sup>2</sup> )	(D)	(D)	(D)
23	Apparel and related prod- ucts.....	39	17	1,147	2,668	1,062	1,808	2,224	3,749	( <sup>2</sup> )	43	2,385	8,811
232	Men's and boys' furnishings..	8	6	538	1,314	506	878	1,110	1,861	( <sup>2</sup> )	20	(D)	(D)
2321	Men's dress shirts & nightwear.	3	3	325	827	313	551	692	1,022	1,116	8	(D)	(D)
238	Miscellaneous apparel.....	5	2	112	201	96	162	154	272	( <sup>2</sup> )	(D)	(D)	(D)
239	Fabricated textiles, n.e.c....	15	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2399	Textile products, n.e.c.....	8	1	110	319	98	181	261	513	1,039	8	(D)	(D)
24	Lumber and wood products...	601	67	6,237	16,711	5,519	11,171	13,602	24,478	( <sup>2</sup> )	2,005	( <sup>3</sup> )	( <sup>3</sup> )
2411	Logging camps and contractors..	206	7	1,156	3,189	950	2,022	2,464	5,067	11,961	608	( <sup>3</sup> )	( <sup>3</sup> )
242	Lumber and basic products.....	279	19	2,017	4,653	1,828	3,523	3,943	6,234	( <sup>2</sup> )	863	2,557	8,678
2421	Sawmills and planing mills.....	275	17	1,816	4,052	1,636	3,075	3,415	4,853	14,609	841	2,475	8,468
243	Millwork & related products..	30	11	909	2,859	781	1,580	2,152	4,130	( <sup>2</sup> )	162	662	3,268
244	Wooden containers.....	30	17	1,114	2,955	1,021	2,069	2,525	4,015	( <sup>2</sup> )	126	1,584	6,101
2444	Wooden boxes.....	24	13	851	2,333	771	1,556	1,947	3,059	6,499	122	1,366	5,342
249	Miscellaneous wood products..	56	13	1,039	3,055	937	1,976	2,517	5,029	( <sup>2</sup> )	245	1,656	4,441
2499	Wood products, n.e.c.....	51	11	833	2,429	759	1,640	2,017	3,988	7,984	166	1,448	(D)
25	Furniture and fixtures.....	48	18	1,873	6,228	1,613	3,435	4,880	9,537	( <sup>2</sup> )	196	1,360	4,844
251	Household furniture.....	40	16	1,528	4,866	1,312	2,752	3,722	7,502	( <sup>2</sup> )	159	1,150	4,115
2511	Wood furniture, not upstd.....	26	12	1,303	4,219	1,138	2,419	3,323	6,498	11,961	140	808	2,809
2512	Upstd. household furniture....	9	3	128	336	107	202	224	634	1,387	8	(D)	(D)
26	Pulp, paper and products...	48	37	6,254	24,362	5,310	11,372	19,316	45,133	( <sup>2</sup> )	3,768	5,759	33,520
261	Pulp, paper and board.....	24	24	3,836	15,050	3,282	7,170	12,197	28,691	( <sup>2</sup> )	2,795	3,749	21,723
2671	Paperboard boxes.....	6	2	109	337	95	175	251	552	1,439	86	(D)	389
269	Pulp, paper and products, n.e.c.....	15	9	1,117	3,624	1,030	2,037	3,208	6,173	( <sup>2</sup> )	127	(D)	(D)
27	Printing and publishing....	116	22	2,975	11,377	2,224	4,259	7,800	18,624	( <sup>2</sup> )	497	2,345	10,960
2711	Newspapers.....	42	10	824	3,319	493	962	1,911	5,482	6,698	106	786	3,780
2751	Commercial printing.....	41	7	1,220	4,824	1,041	1,980	3,903	6,579	9,773	207	253	918
2771	Greeting cards.....	3	2	541	1,620	411	769	945	4,151	7,642	17	(D)	(D)
278	Bookbinding and related in- dustries.....	3	1	152	692	111	241	426	878	( <sup>2</sup> )	20	(D)	(D)
28	Chemicals and products.....	22	6	362	1,454	259	498	839	2,866	( <sup>2</sup> )	122	498	2,801
284	Soap and related products....	7	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2842	Cleaning & polishing products..	6	2	102	510	51	103	130	841	1,810	29	(D)	(D)
29	Petroleum and coal products	3	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
30	Rubber products.....	8	5	506	1,686	422	888	1,259	3,465	6,253	193	(D)	(D)
3099	Rubber industries, n.e.c.....	8	5	506	1,686	422	888	1,259	3,465	6,253	193	(D)	(D)
31	Leather and leather goods..	122	92	21,013	57,824	19,202	33,877	48,985	86,400	( <sup>2</sup> )	1,020	20,070	70,107
3111	Leather tanning & finishing..	15	11	1,718	6,428	1,551	3,219	5,579	9,598	20,672	322	1,299	5,991
3131	Footwear cut stock.....	43	23	1,602	4,599	1,414	2,634	3,661	6,283	20,344	101	1,777	6,717
314	Footwear, except rubber.....	56	54	17,332	45,779	15,943	27,475	39,017	69,039	( <sup>2</sup> )	560	16,610	55,882

See footnotes at end of table.



## MANUFACTURES—AREA STATISTICS

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954										1947	
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
32	Stone, clay and glass products.....	43	14	1,609	5,620	1,312	2,800	4,216	10,146	(2)	514	1,048	3,866
327	Concrete and plaster products	23	3	281	1,169	231	572	928	2,812	(2)	134	222	1,056
329	Nonmetallic mineral products, n.e.c.....	12	7	1,143	3,727	918	1,889	2,701	6,277	(2)	341	(D)	(D)
33	Primary metal industries...	18	8	586	2,145	498	1,047	1,656	3,321	(2)	194	636	2,566
3361	Nonferrous foundries.....	6	2	227	786	183	420	598	1,763	2,195	98	(D)	(D)
34	Fabricated metal products..	53	23	1,847	6,505	1,601	3,312	5,133	12,003	(2)	432	1,562	6,842
342	Cutlery, tools, and hardware.	19	9	618	2,077	564	1,182	1,748	3,354	(2)	330	523	1,716
3421	Cutlery.....	4	2	202	629	188	393	561	782	1,143	(D)	(D)	(D)
3429	Hardware, n.e.c.....	5	3	243	928	221	481	748	1,772	3,054	301	(D)	(D)
343	Heating and plumbing equipment.....	4	3	179	639	154	322	466	1,079	(2)	6	(D)	(D)
344	Structural metal products....	15	5	294	945	237	469	658	2,009	(2)	35	186	832
346	Metal stamping and coating...	7	2	134	486	115	254	360	890	(2)	42	101	510
35	Machinery, except electrical.....	89	22	6,521	26,367	5,007	10,346	18,023	46,655	(2)	2,402	6,234	32,209
354	Metalworking machinery.....	21	3	714	3,287	541	1,095	2,156	6,978	(2)	459	(D)	(D)
355	Special-industry machinery, n.e.c.....	22	12	3,841	15,462	2,995	6,244	10,717	27,052	(2)	1,546	4,086	19,324
3552	Textile machinery.....	11	6	2,270	8,419	1,787	3,605	6,040	14,798	19,013	(D)	(D)	(D)
3554	Paper-industries machinery....	6	3	1,164	5,462	862	1,907	3,332	9,617	18,060	(D)	792	5,738
359	Miscellaneous machinery parts	39	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3599	Machine shops.....	29	1	190	693	156	336	538	973	1,274	91	(D)	(D)
36	Electrical machinery.....	31	21	6,913	22,562	5,432	10,810	15,746	46,518	(2)	3,286	(D)	(D)
366	Communication equipment.....	12	9	3,378	9,523	2,708	5,344	6,936	17,255	(2)	991	(D)	(D)
3661	Radios and related products....	12	9	3,378	9,523	2,708	5,344	6,936	17,255	(2)	991	(D)	(D)
37	Transportation equipment...	8	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
38	Instruments and related products.....	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	539	1,635
39	Miscellaneous manufactures.	44	19	2,040	5,298	1,873	3,540	4,395	7,487	(2)	235	1,739	5,573
394	Toys and sporting goods.....	13	5	815	1,832	776	1,447	1,618	2,339	(2)	11	301	1,011
3941	Games and toys, n.e.c.....	5	2	629	1,414	608	1,136	1,262	1,679	1,825	6	(D)	(D)
396	Costume jewelry and notions..	7	4	297	805	264	515	652	1,089	(2)	(D)	(D)	(D)
398	} Miscellaneous manufactures...	18	6	773	2,269	697	1,322	1,829	3,482	(2)	63	(D)	(D)
399													

NOTE: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industries (4-digit) and industry groups (3-digit) are not shown. Industries and industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "all industries" line.<sup>2</sup>The total value of shipments figures for industry groups and a few individual industries have not been published due to the extensive and unmeasurable duplication arising from shipments from one establishment to another in the same industry classification. (See Introduction.)<sup>3</sup>Comparable data are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude establishments in S.I.C. Industry 2411, Logging Camps and Contractors, which are included in the scope of the 1954 Census; the 1947 Census also excludes plants processing and distributing fluid milk which in 1954 were classified in Industry Group 202, Dairy Products. In the special comparative table below; data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	All industries except subgroups 202 and 2411, total.....	74,907	397,755	74,684	304,826
20	Food and kindred products except subgroup 202, Dairy products.....	1,808	11,474	1,800	7,000
24	Lumber and wood products except Industry 2411, Logging camps and contractors.....	5,081	19,411	6,459	22,488

Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUPS: 1954 AND 1947  
(This State contained no standard metropolitan area with 40,000 or more manufacturing employees in 1954 or 1947)



## NEW HAMPSHIRE

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Table 6.—GENERAL STATISTICS FOR PRINCIPAL INDUSTRIAL COUNTIES, BY MAJOR INDUSTRY GROUP: 1954 AND 1947

(Principal industrial counties include all counties with 20,000 or more manufacturing employees. For explanation of column captions see Introduction)

Code	Major industry group	1954								1947	
		Establishments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendit- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Pay roll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
HILLSBOROUGH COUNTY											
	All industries, total <sup>1</sup> .....	438	31,616	100,005	27,149	51,724	77,223	166,355	6,272	<sup>2</sup> 31,845	<sup>2</sup> 132,176
20	Food and kindred products.....	68	1,544	5,596	940	2,026	3,057	10,608	801	956	4,921
22	Textile mill products.....	46	7,181	22,245	6,462	12,756	18,440	36,412	765	11,316	48,163
23	Apparel and related products...	16	448	1,098	425	716	945	1,395	23	1,519	(D)
24	Lumber and wood products.....	80	1,240	3,601	1,085	2,202	2,845	4,990	212	1,350	4,620
25	Furniture and fixtures.....	24	990	3,522	836	1,771	2,717	5,217	50	548	2,140
26	Pulp, paper and products.....	10	1,392	6,067	1,061	2,327	4,107	10,803	1,030	1,273	(D)
27	Printing and publishing.....	38	1,102	4,166	759	1,427	2,440	8,298	94	539	2,595
28	Chemicals and products.....	6	68	237	55	114	207	590	40	79	813
31	Leather and leather goods.....	47	9,722	26,878	8,977	15,232	23,414	42,391	161	9,726	35,321
32	Stone, clay, & glass products..	9	490	1,730	384	720	1,265	3,328	181	609	(D)
33	Primary metal industries.....	5	206	760	159	330	548	1,036	86	198	912
34	Fabricated metal products.....	20	665	2,377	570	1,238	1,811	4,156	326	503	2,099
35	Machinery, exc. electrical....	31	2,188	9,486	1,687	3,613	6,020	15,586	1,138	1,452	8,348
36	Electrical machinery.....	12	2,865	8,372	2,363	4,688	6,294	15,948	989	411	15,397
39	Miscellaneous manufactures <sup>3</sup> ....	17	998	2,415	937	1,763	2,046	2,998	91	470	1,785

D Withheld to avoid disclosing data for individual companies.

<sup>1</sup>In order to avoid disclosing data for individual companies, the statistics for some industry groups are not shown. Industry groups reporting less than 100 employees are also omitted. They are included, however, in the "All industries" line.<sup>2</sup>The 1954 and 1947 "All industries" totals are not strictly comparable because of differences in coverage of loggers and fluid milk distributors. See discussion in Introduction and footnote to Table 4 for comparable figures at the State level.<sup>3</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)

## MANUFACTURES—AREA STATISTICS

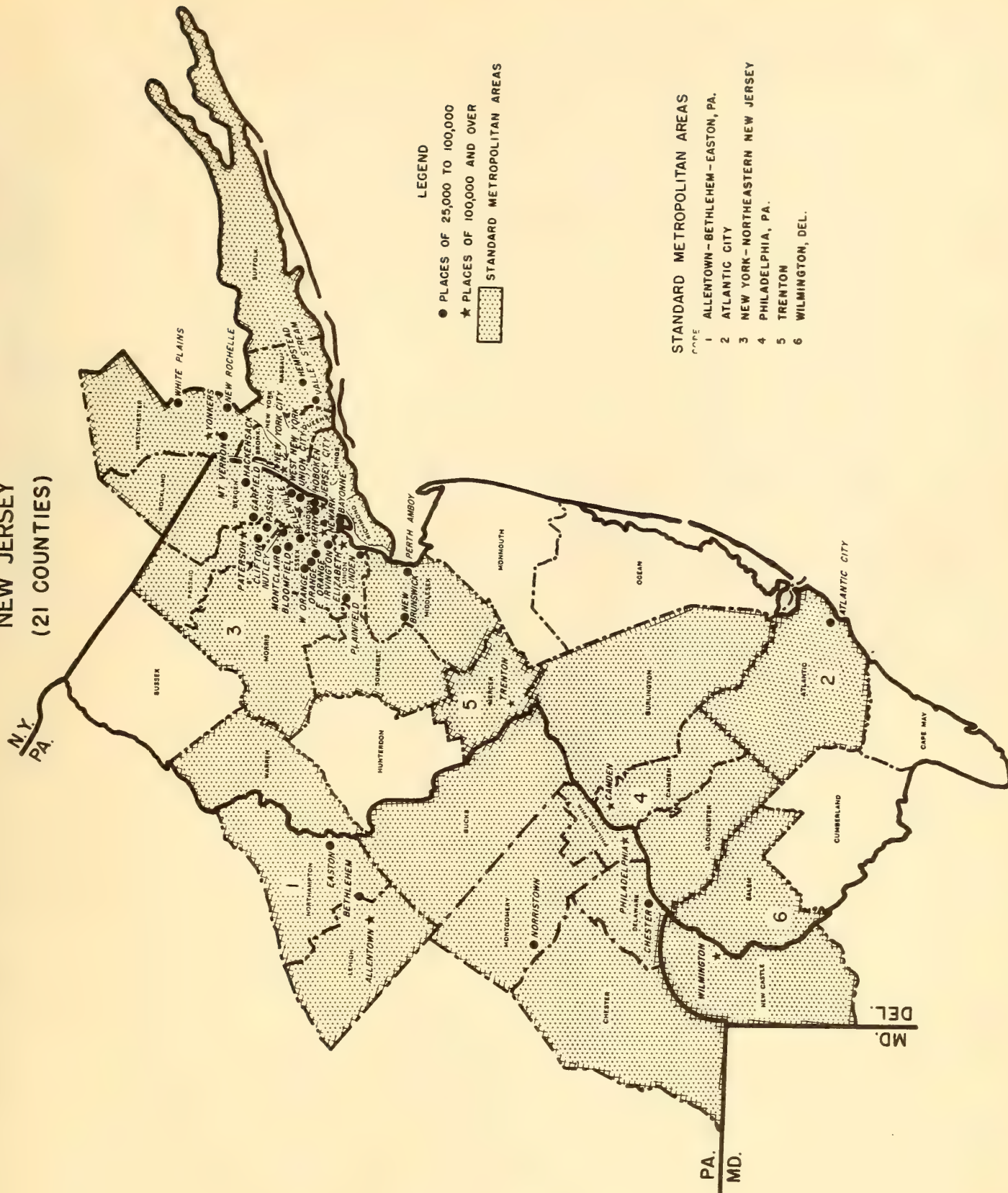
Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954

20 Food and kindred products	26 Pulp, paper and products	32 Stone, clay, and glass products	38 Instruments and related products
21 Tobacco manufactures	27 Printing and publishing	33 Primary metal industries	39 Miscellaneous manufactures (Includes Group 19 Ordnance and accessories)
22 Textile mill products	28 Chemicals and products	34 Fabricated metal products	
23 Apparel and related products	29 Petroleum and coal products	35 Machinery, except electrical	
24 Lumber and wood products	30 Rubber products	36 Electrical machinery	
25 Furniture and fixtures	31 Leather and leather goods	37 Transportation equipment	

(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establish- ments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
New Hampshire, total.....	1,609	191	3	112	39	601	48	48	116	22	3	8	122	43	18	53	89	31	8	10	44
1 to 4 employees.....	705	83	1	10	11	384	16	3	53	14	1	3	12	23	7	19	40	4	5	2	14
5 to 9 employees.....	221	37	1	8	7	90	8	1	23	...	1	...	9	2	1	3	15	4	2	3	6
10 to 19 employees.....	186	33	...	10	4	60	6	7	18	2	1	...	9	4	2	8	12	2	1	2	5
20 to 49 employees.....	195	28	...	27	7	36	8	16	13	4	...	...	16	7	4	11	4	5	...	2	7
50 to 99 employees.....	117	7	...	13	7	23	4	8	5	1	...	3	19	3	1	10	5	...	...	...	8
100 to 249 employees.....	105	3	...	29	3	8	5	6	2	1	...	2	23	2	3	1	5	8	...	1	3
250 to 499 employees.....	56	...	1	11	...	...	1	4	1	...	...	...	25	2	...	1	5	5	...	...	...
500 to 999 employees.....	17	...	...	4	...	...	...	1	1	...	...	...	9	...	...	...	1	...	...	...	1
1,000 to 2,499.....	7	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	2	3	...	...	...
Belknap:																					
1 to 19 employees.....	66	10	...	1	1	23	1	1	3	2	...	...	1	3	2	4	8	2	1	...	1
20 to 99 employees.....	18	2	...	7	1	3	...	...	1	...	...	...	1	...	...	1	...	...	...	...	2
100 employees and over.....	9	...	...	2	...	1	...	...	...	...	...	...	2	1	1	...	1	1	...	...	...
Carroll:																					
1 to 19 employees.....	86	4	...	...	1	68	2	...	4	...	...	...	...	2	1	...	1	...	3	...	...
20 to 99 employees.....	7	...	...	1	1	2	2	...	...	...	...	...	1	...	...	...	...	...	...	...	...
Cheshire:																					
1 to 19 employees.....	103	11	...	5	...	51	5	2	5	2	...	...	...	1	1	3	13	...	2	...	2
20 to 99 employees.....	30	...	...	3	...	8	1	7	...	1	...	...	3	...	...	1	1	...	...	...	5
100 employees and over.....	19	...	...	6	...	1	1	...	1	...	...	...	3	...	...	2	3	...	...	1	1
Coos:																					
1 to 19 employees.....	81	10	...	...	1	63	...	1	3	2	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	15	1	...	...	...	8	...	3	...	1	...	1	...	...	1	...	...	...	...	...	...
100 employees and over.....	15	...	...	...	1	4	1	7	...	1	...	...	1	...	...	...	...	...	...	...	...
Grafton:																					
1 to 19 employees.....	115	11	...	...	1	78	1	...	11	...	2	...	1	2	...	3	1	...	...	2	2
20 to 99.....	24	...	...	1	3	5	...	2	2	...	...	...	3	3	...	1	1	1	...	1	1
100 employees and over.....	11	...	...	4	...	...	...	2	...	...	...	1	3	...	...	...	1	...	...	...	...
Hillsborough:																					
1 to 19 employees.....	251	44	2	8	10	63	15	6	30	5	...	2	14	6	2	10	20	2	...	1	11
20 to 99 employees.....	111	22	...	18	4	15	6	2	6	1	...	2	10	2	2	10	6	1	...	...	4
100 employees and over.....	76	2	1	20	2	2	3	2	2	...	...	1	23	1	1	...	5	9	...	...	2
Merrimack:																					
1 to 19 employees.....	135	11	...	8	2	72	1	...	12	2	1	1	1	6	1	2	7	1	1	2	4
20 to 99 employees.....	43	3	...	4	3	8	2	4	4	1	...	...	2	3	2	2	1	2	...	...	2
100 employees and over.....	12	...	...	2	...	...	1	...	1	...	...	...	4	...	1	...	...	2	...	...	1
Rockingham:																					
1 to 19 employees.....	125	29	...	3	3	46	3	1	11	3	...	...	9	3	...	2	8	2	...	1	1
20 to 99 employees.....	26	2	...	1	2	4	1	1	2	...	...	...	7	2	...	3	...	...	...	...	1
100 employees and over.....	14	...	...	1	...	...	...	...	...	...	...	...	10	2	...	...	...	1	...	...	...
Strafford:																					
1 to 19 employees.....	91	16	...	1	1	44	...	...	10	...	...	...	3	3	2	4	3	2	1	...	1
20 to 99 employees.....	25	3	...	3	...	4	...	4	...	1	...	...	8	...	...	1	...	1	...	...	...
100 employees and over.....	20	...	...	6	...	...	...	1	...	...	...	...	8	...	...	...	2	3	...	...	...
Sullivan:																					

# NEW JERSEY (21 COUNTIES)



## LEGEND

- PLACES OF 25,000 TO 100,000
- ★ PLACES OF 100,000 AND OVER
- ▨ STANDARD METROPOLITAN AREAS

## STANDARD METROPOLITAN AREAS

- 1 ALLENTOWN - BETHLEHEM - EASTON, PA.
- 2 ATLANTIC CITY
- 3 NEW YORK - NORTHEASTERN NEW JERSEY
- 4 PHILADELPHIA, PA.
- 5 TRENTON
- 6 WILMINGTON, DEL.



## MANUFACTURES—AREA STATISTICS

Table 1.—MANUFACTURING EMPLOYMENT AT OPERATING ESTABLISHMENTS AND CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARIES FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS

(This table includes data for all manufacturing employees including those located in central administrative offices and auxiliaries. Tables 2-7 in this report include data for operating establishments only. For explanation of column captions see Introduction)

State, standard metropolitan areas, and year <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	(Number)	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
New Jersey:						
1954.....	810,525	3,489,145	787,593	3,352,425	22,932	136,720
1953 <sup>2</sup> .....	853,101	3,583,419	835,544	3,497,451	17,557	85,968
1952 <sup>2</sup> .....	792,016	3,231,418	778,328	3,171,990	<sup>3</sup> 13,688	<sup>3</sup> 59,428
1951 <sup>2</sup> .....	776,563	2,960,607	762,875	2,901,179	13,688	59,428
1950 <sup>2</sup> .....	730,650	2,531,320	721,493	2,498,816	9,157	32,504
1949 <sup>2</sup> .....	698,704	2,292,008	684,903	2,237,620	13,801	54,388
1954						
Standard metropolitan areas:						
Allentown-Bethlehem-Easton <sup>4</sup> .....	94,121	353,338	90,265	323,179	3,856	30,159
Atlantic City <sup>5</sup> .....	6,202	18,428	6,202	18,428	...	...
New York-Northeastern-New Jersey <sup>6</sup> .....	1,832,703	7,779,531	1,731,977	7,095,016	100,726	684,515
Philadelphia <sup>7</sup> .....	564,172	2,403,375	547,042	2,291,639	17,130	111,736
Trenton <sup>8</sup> .....	39,517	165,971	38,289	157,238	1,228	8,733
Wilmington <sup>9</sup> .....	53,089	287,695	37,919	170,700	15,170	116,995

<sup>1</sup>Employment data for administrative offices and auxiliaries on a State basis are not available for the years prior to 1949. Similar data for standard metropolitan areas are available only for 1954.

<sup>2</sup>The employment figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period. The employment figures for administrative and auxiliary units were compiled chiefly from Bureau of Old-Age and Survivors Insurance records and are not strictly comparable with the figures for these units that were collected by the Bureau of the Census for the year 1954.

<sup>3</sup>The 1951 data are shown for 1952 since auxiliary and administrative unit data were not collected in 1952.

<sup>4</sup>The Allentown-Bethlehem-Easton Standard Metropolitan Area consists of: Warren County, New Jersey; Lehigh and Northampton Counties, Pennsylvania.

<sup>5</sup>The Atlantic City Standard Metropolitan Area consists of Atlantic County, New Jersey.

<sup>6</sup>The New York-Northeastern New Jersey Standard Metropolitan Area consists of New York City (Bronx, Kings, New York, Queens, and Richmond Counties); Nassau, Rockland, Suffolk, and Westchester Counties, New York; Bergen, Essex, Hudson, Middlesex, Morris, Passaic, Somerset, and Union Counties, New Jersey.

<sup>7</sup>The Philadelphia Standard Metropolitan Area consists of Burlington, Camden, and Gloucester Counties, New Jersey; Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties, Pennsylvania.

<sup>8</sup>The Trenton Standard Metropolitan Area Consists of Mercer County, New Jersey.

<sup>9</sup>The Wilmington Standard Metropolitan Area consists of New Castle County, Delaware; Salem County, New Jersey.

Table 2.—GENERAL STATISTICS FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Year	Establish- ments, number	All employees		Production workers		Value added by manufacture (\$1,000)
		Number	Payroll (\$1,000)	Number	Wages (\$1,000)	
NEW JERSEY						
1954 <sup>1</sup> .....	13,183	787,593	3,352,425	605,099	2,280,134	6,331,178
1953 <sup>2</sup> .....	(NA)	835,544	3,497,451	657,259	2,478,978	6,451,055
1952 <sup>2</sup> .....		778,328	3,171,990	610,977	2,252,693	5,764,365
1951 <sup>2</sup> .....		762,875	2,901,179	610,018	2,095,668	5,310,912
1950 <sup>2</sup> .....		721,493	2,498,816	575,288	1,785,940	4,867,312
1949 <sup>2</sup> .....		684,903	2,237,620	546,552	1,593,950	4,206,331
1947.....	10,765	739,035	2,216,874	602,304	1,645,489	4,186,077
1939.....	7,438	531,126	753,941	431,562	519,087	1,518,269
1937.....	7,064	504,241	684,030	436,745	523,504	1,362,708
1935.....	7,425	432,559	528,610	373,522	391,924	1,024,855
1933.....	5,759	(NA)	(NA)	295,574	283,242	807,196
1931.....	7,178	516,576	808,862	334,691	402,027	1,160,032
1929.....	8,388			442,328	610,596	1,771,430
1927.....	8,312	(NA)	(NA)	408,093	570,309	1,460,853
1925.....	8,204			425,377	576,236	1,452,326
1923.....	8,767	590,920	769,258	448,069	578,927	1,357,150
1921.....	8,784			381,773	460,471	1,071,808
1919.....	10,564	421,798	280,256	507,059	598,514	1,397,775
1914.....	9,490	363,061	218,046	372,828	210,481	521,816
1909.....	8,817			326,223	169,710	425,496
1904.....	7,010	289,532	157,126	266,336	128,169	303,920
1899.....	6,415	229,336	114,223	213,975	95,165	218,280
ALLENTOWN-BETHLEHEM-EASTON STANDARD METROPOLITAN AREA						
1954 <sup>1</sup> .....	1,007	90,265	323,179	74,271	239,744	593,489
1947.....	898	88,614	222,372	76,351	177,547	360,669
1939.....	662	67,583	80,781	59,181	62,891	158,236
1929.....	783	72,461	107,132	64,919	86,508	216,477
1919.....	1,169	(NA)	(NA)	64,972	72,379	180,335
NEW YORK-NORTHEASTERN NEW JERSEY STANDARD METROPOLITAN AREA						
1954 <sup>1</sup> .....	51,403	1,731,977	7,095,016	1,336,116	4,714,688	13,115,922
1947.....	48,281	1,598,662	4,920,048	1,269,961	3,485,822	9,310,900
1939.....	32,132	1,116,708	1,646,817	867,953	1,062,156	3,126,135
1929.....	36,923	1,110,942	1,988,775	910,870	1,399,940	4,452,465
1919.....	42,293	(NA)	(NA)	1,057,677	1,300,273	3,592,026
PHILADELPHIA STANDARD METROPOLITAN AREA						
1954 <sup>1</sup> .....	8,079	547,042	2,291,639	419,932	1,564,348	4,023,700
1947.....	7,394	531,809	1,530,678	436,996	1,139,148	2,772,649
1939.....	5,756	393,561	555,590	320,627	385,782	1,037,292
1929.....	7,136	428,914	663,047	367,784	497,430	1,396,529
1919.....	11,673	(NA)	(NA)	465,487	567,866	1,303,034
TRENTON STANDARD METROPOLITAN AREA						
1954 <sup>1</sup> .....	443	38,289	157,238	30,069	112,465	302,999
1947.....	402	40,422	113,283	34,094	88,389	208,485
1939.....	318	28,406	36,195	25,287	28,587	72,054
1929.....	346	27,091	40,251	23,721	31,200	79,449
1919.....	497	(NA)	(NA)	30,515	34,874	78,698
WILMINGTON STANDARD METROPOLITAN AREA <sup>3</sup>						
1954 <sup>1</sup> .....	344	37,919	170,700	28,728	114,450	387,324
1947.....	(NA)	36,506	(NA)	(NA)	(NA)	207,254

NA Not available.

<sup>1</sup>The 1954 figures include data for establishments engaged in the processing and distribution of fluid milk, Industry Group 202, Dairy Products. These establishments were not included in the figures for the Annual Survey years 1949-1953 or earlier Census years. In addition, the 1954 Census and Annual Survey years include data for Logging Camps and Contractors, Industry 2411, which were not included within the scope of the 1947 Census. See footnotes to Table 4 for comparable 1954 and 1947 totals. There were also a number of changes in the definition of manufacturing industries during earlier Census years that affect the comparability of the historical series. Among the more important of these were: figures for 1935 and later years exclude data for "Railroad repair shops" and "Manufactured gas" which were included in 1899-1933 figures; the minimum size of establishment included for 1954 and 1947 was one employee, for 1939-1921 manufacturing establishments reporting value of shipments of \$5,000 or more were within scope whereas for 1919 and earlier years the cutoff was \$500. (This change in procedure has not appreciably affected the comparability of the historical data except for the figures on number of establishments.)

<sup>2</sup>The employment and payroll figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period.

<sup>3</sup>There are 53,089 manufacturing employees (including central administrative office and auxiliary unit employment) in the Wilmington Standard Metropolitan Area. (See Table 1.) The data in this table represent employment at operating manufacturing establishments.



## MANUFACTURES—AREA STATISTICS

Table 3.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
New Jersey, total.....	4,835,329	13,183	787,593	3,352,425	605,099	1,187,747	2,280,134	6,331,178	359,816	1,739,035	14,186,077
STANDARD METROPOLITAN AREAS											
Allentown-Bethlehem-											
Easton area.....	437,824	1,007	90,265	323,179	74,271	140,359	239,744	593,489	43,417	88,614	360,669
Portion in New Jersey....	54,374	118	10,051	38,144	8,004	16,113	28,003	71,059	2,474	9,130	41,451
Portion in Pennsylvania..	383,450	889	80,214	285,035	66,267	124,246	211,741	522,430	40,943	79,484	319,218
Atlantic City area.....	132,399	252	6,202	18,428	5,219	9,638	13,875	28,384	1,566	6,057	23,212
New York-Northeastern-New											
Jersey area.....	12,911,944	51,403	1,731,977	7,095,016	1,336,116	2,566,509	4,714,688	13,115,922	444,124	1,598,662	9,310,900
Portion in New Jersey....	3,356,051	10,391	611,339	2,641,146	463,986	914,707	1,771,129	4,982,698	260,794	571,661	3,326,416
Portion in New York.....	9,555,943	41,012	1,120,638	4,453,870	872,130	1,651,802	2,943,559	8,133,224	183,330	1,027,001	5,984,484
Philadelphia area.....	3,671,048	8,079	547,042	2,291,639	419,932	827,015	1,564,348	4,023,700	275,789	531,809	2,772,649
Portion in New Jersey....	528,380	915	69,120	300,777	54,961	108,348	212,957	539,271	49,761	63,639	334,088
Portion in Pennsylvania..	3,142,668	7,164	477,922	1,990,862	364,971	718,667	1,351,391	3,484,429	226,028	468,170	2,438,561
Trenton area.....	229,781	443	38,289	157,238	30,069	58,629	112,465	302,999	14,903	40,422	208,485
Wilmington area.....	268,387	344	37,919	170,700	28,728	55,882	114,450	387,324	24,681	36,506	207,254
Portion in New Jersey....	49,508	49	10,641	54,600	7,703	14,840	33,996	135,707	11,672	12,331	85,660
Portion in Delaware.....	218,879	295	27,278	116,099	21,025	41,042	80,453	251,617	13,008	24,175	121,594
COUNTIES											
Atlantic.....	132,399	252	6,202	18,428	5,219	9,638	13,875	28,384	1,566	6,057	23,212
Bergen.....	539,139	1,499	82,818	367,934	60,495	121,098	235,112	654,901	20,224	52,508	325,495
Burlington.....	135,910	244	13,353	55,847	10,998	22,357	42,567	99,419	14,329	12,516	58,388
Camden.....	300,743	507	46,283	203,115	36,845	72,070	142,038	368,045	13,922	43,971	227,648
Cape May.....	37,131	72	1,471	4,126	1,265	2,380	3,261	8,434	696	1,380	5,399
Cumberland.....	88,597	257	18,350	61,414	15,705	29,948	47,284	109,242	9,257	16,485	71,027
Essex.....	905,949	2,817	143,101	611,593	105,778	208,076	390,195	1,067,606	51,334	142,892	798,016
Gloucester.....	91,727	164	9,484	41,814	7,118	13,920	28,352	71,805	21,508	7,152	48,052
Hudson.....	647,437	2,363	133,063	569,410	100,902	195,838	380,317	1,119,182	41,723	144,039	889,898
Hunterdon.....	42,736	86	3,540	13,187	3,054	6,238	10,521	24,027	2,755	4,123	24,056
Mercer.....	229,781	443	38,289	157,238	30,069	58,629	112,465	302,999	14,903	40,422	208,485
Middlesex.....	264,872	651	65,529	284,183	51,462	102,226	199,495	608,462	43,165	59,614	334,239
Monmouth.....	225,327	406	14,014	46,647	11,441	18,922	33,947	96,556	3,435	11,587	56,589
Morris.....	164,371	352	17,650	72,290	13,720	28,003	49,483	160,471	7,860	12,837	82,167
Ocean.....	56,622	120	1,605	5,212	1,247	2,394	3,648	8,147	1,888	824	3,568
Passaic.....	337,093	1,457	72,310	295,596	58,531	114,066	216,379	507,788	19,500	78,521	376,137
Salem.....	49,508	49	10,641	54,600	7,703	14,840	33,996	135,707	11,672	12,331	85,660
Somerset.....	99,052	166	15,669	69,185	11,439	22,006	44,489	127,265	8,024	14,217	83,366
Sussex.....	34,423	74	2,231	7,149	1,901	3,811	5,537	14,483	647	1,396	6,126
Union.....	398,138	1,086	81,174	370,880	61,639	123,360	255,582	736,896	68,957	67,033	437,098
Warren.....	54,374	118	10,051	38,144	8,004	16,113	28,003	71,059	2,474	9,130	41,451
CITIES WITH 10,000 INHABITANTS OR MORE											
Ampere.....	79,340	100	2,768	11,683	2,141	4,233	7,759	16,522	1,047	1,954	9,932
Asbury Park.....	17,094	41	1,344	4,724	1,033	1,897	3,164	9,406	136	1,223	6,013
Athenia.....	64,511	210	15,363	66,822	11,412	21,844	44,584	135,723	6,206	15,677	66,890
Atlantic City.....	61,657	98	1,945	6,276	1,404	2,709	3,811	10,887	364	1,811	7,650
Belleville.....	32,019	131	9,686	42,502	6,758	13,737	26,621	83,227	2,746	7,558	42,162
Bergenfield.....	17,647	29	542	1,859	455	842	1,251	3,260	75	407	1,481
Bergen Point.....	77,203	129	11,506	50,328	8,993	16,994	35,643	105,479	6,038	14,073	154,308
Bloomfield.....	49,307	106	12,706	53,719	9,434	18,608	35,202	87,051	4,684	14,194	76,299
Bridgeton.....	18,378	50	4,578	16,673	3,779	7,523	12,408	37,640	6,235	4,187	24,978
Burlington.....	12,051	25	2,571	10,341	2,188	4,547	8,102	21,977	878	1,532	6,857
East Camden.....	124,555	244	39,486	177,411	31,444	61,437	123,316	315,614	10,673	38,909	196,069
Carteret.....	13,030	32	5,180	22,255	4,021	8,330	16,477	38,013	2,365	5,037	27,632
Cliffside Park.....	17,116	26	252	875	221	431	689	1,339	109	243	1,158
Collingswood.....	15,800	14	90	286	70	147	227	545	22	154	497
Dover.....	11,174	32	2,452	8,821	2,048	4,037	6,472	21,855	844	2,655	13,136
Dumont.....	13,013	15	174	685	150	316	556	1,195	34	(NA)	(NA)
East Paterson.....	15,386	40	4,728	20,170	3,325	6,558	11,444	39,359	1,355	(NA)	(NA)
Elizabeth.....	112,817	274	23,083	98,815	18,275	36,047	73,110	156,913	8,362	17,212	100,901
Highwood.....	23,145	89	2,293	8,709	1,784	3,443	5,661	17,079	501	1,004	5,754
Fair Lawn.....	23,885	36	963	3,593	774	1,548	2,479	5,993	234	(NA)	(NA)
Fort Lee.....	11,648	19	128	417	111	204	343	620	9	(NA)	(NA)
Garfield.....	27,550	119	6,546	24,455	5,586	10,327	18,635	33,790	896	8,064	38,439
Gloucester City.....	14,357	27	1,197	4,694	1,009	1,965	3,613	13,205	848	1,362	8,484
Hackensack.....	29,219	123	2,945	11,203	2,366	4,402	7,541	18,493	685	1,978	8,388
Haddonfield.....	10,495	6	73	313	36	77	147	613	28	(NA)	(NA)

See footnotes at end of table.



Table 3.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947 Continued  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
Harrison.....	13,490	43	15,513	69,942	11,677	22,507	47,267	119,317	5,778	15,094	71,561
Hawthorne.....	14,816	89	1,944	8,405	1,557	3,101	5,912	18,227	641	1,180	5,854
Hoboken.....	50,676	215	14,347	61,246	11,200	21,591	43,333	177,928	3,357	19,958	118,369
Irvington.....	59,201	149	8,107	33,331	6,860	13,264	24,422	52,732	2,741	7,213	38,721
Journal Square.....	299,017	616	41,811	179,420	30,916	60,752	116,599	361,001	14,112	37,412	250,366
Kearny.....	39,952	103	18,685	90,484	11,699	23,219	50,533	162,170	6,392	26,327	131,406
Linden.....	30,644	128	17,799	90,327	13,178	26,719	61,730	198,751	39,975	12,577	98,024
Lodi.....	15,392	85	3,083	12,619	2,617	5,268	9,062	21,068	844	2,462	12,878
Long Branch.....	23,090	44	1,526	4,809	1,235	2,115	3,163	8,265	794	1,287	5,954
Madison.....	10,417	10	88	409	66	132	250	962	18	(NA)	(NA)
Millville.....	16,041	55	5,232	17,711	4,638	9,039	14,461	27,177	1,589	4,330	16,608
Montclair.....	43,927	46	619	2,169	459	810	1,361	3,434	144	683	2,644
Morristown.....	17,124	33	773	2,643	636	1,209	1,990	3,979	149	284	1,301
Netherwood.....	42,366	77	5,097	21,744	3,919	7,615	15,186	34,573	1,507	4,367	19,350
Newark.....	438,776	1,889	90,157	384,894	66,653	131,664	245,045	688,013	30,895	92,325	523,228
New Brunswick.....	38,811	106	11,812	52,923	8,634	17,214	31,853	76,177	5,008	11,247	59,520
North Arlington.....	15,970	37	837	3,637	613	1,257	2,307	5,621	190	(NA)	(NA)
North Plainfield.....	12,766	16	480	1,625	367	627	1,084	3,355	116	681	(D)
Nutley.....	26,992	37	3,092	16,433	1,916	4,673	9,482	32,900	5,923	935	5,323
Orange.....	38,037	107	4,524	19,306	3,226	5,664	11,437	36,858	922	3,964	23,285
Parlin.....	10,338	10	3,168	(D)	2,413	(D)	(D)	(D)	(D)	(NA)	(NA)
Passaic.....	57,702	241	18,593	72,952	15,456	29,587	56,099	112,319	2,842	27,770	125,724
Paterson.....	139,336	765	28,164	110,624	23,545	46,656	83,687	178,892	5,585	27,713	139,247
Perth Amboy.....	41,330	113	11,568	46,763	9,692	18,899	35,852	91,610	8,458	10,105	57,480
Phillipsburg.....	18,919	31	5,186	20,902	3,990	8,085	15,149	39,975	641	6,458	30,375
Pleasantville.....	11,938	20	326	910	290	610	773	1,355	18	455	1,399
Princeton.....	12,230	6	34	131	23	46	100	211	27	(NA)	(NA)
Rahway.....	21,290	43	5,654	25,596	4,147	7,962	16,552	53,192	1,809	4,679	39,290
Red Bank.....	12,743	34	1,507	4,105	1,384	2,446	3,332	5,118	36	1,965	8,210
Ridgefield Park.....	11,993	19	719	3,116	578	1,224	2,322	6,628	224	1,119	10,377
Ridgewood.....	17,481	22	384	1,414	206	364	667	2,796	321	114	564
Roselle.....	17,681	29	1,776	7,761	1,322	2,617	5,018	12,710	529	1,365	7,231
Roselle Park.....	11,537	23	1,005	3,322	850	1,527	2,446	5,261	91	(NA)	(NA)
Rutherford.....	17,411	28	631	2,811	507	988	1,908	4,549	295	395	1,771
Somerville.....	11,571	17	590	2,021	485	933	1,477	3,214	109	(NA)	(NA)
South Orange.....	15,230	11	128	509	94	188	334	936	39	136	484
South River.....	11,308	58	2,124	5,600	2,005	3,350	4,959	7,243	361	2,187	7,095
Summit.....	17,929	34	1,656	7,910	855	1,588	3,076	29,500	1,193	1,523	11,945
Trenton.....	128,009	334	23,306	93,224	18,102	34,744	65,408	186,572	5,819	26,788	133,778
Union City.....	55,537	397	7,962	26,750	6,738	12,571	19,674	47,393	1,375	7,345	36,025
Verona.....	10,921	15	551	1,717	434	854	1,241	2,598	99	(NA)	(NA)
Westfield.....	21,243	10	112	474	78	172	338	1,791	26	169	1,356
West New York.....	37,683	396	6,113	21,477	5,367	10,169	16,172	34,316	794	6,249	30,242
West Orange.....	28,605	55	3,119	11,971	2,240	4,298	7,540	19,549	704	3,889	18,463
Woodbury.....	10,931	13	234	745	201	393	616	1,165	138	(NA)	(NA)

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>The 1947 data are not strictly comparable with the figures shown for 1954 due to differences in coverage of loggers and fluid milk distributors.  
See discussion in Introduction and footnotes to Table 4.

## MANUFACTURES--AREA STATISTICS

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954										1947	
		Establish- ments, number		All employees		Production workers			Value added by manufacture	Value of shipments	Capital expendi- tures, new	All employees, number	Value added by manufacture
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
	All industries, total <sup>1</sup> ...	13,183	4,748	787,593	3,352,425	605,099	1,187,747	2,280,134	6,331,178	( <sup>2</sup> )	359,816	<sup>3</sup> 739,035	<sup>3</sup> 4,186,077
20	Food and kindred products..	1,254	372	60,172	255,459	40,814	80,660	153,597	650,466	( <sup>2</sup> )	27,194	( <sup>4</sup> )	( <sup>4</sup> )
201	Meat products.....	126	48	5,426	24,205	4,194	8,913	17,269	38,776	( <sup>2</sup> )	1,799	4,857	24,961
2011	Meat packing plants.....	51	20	3,611	16,764	2,794	5,975	11,977	25,396	( <sup>2</sup> )	1,107	2,729	15,507
2013	Prepared meats.....	59	21	1,517	6,605	1,139	2,361	4,600	12,023	( <sup>2</sup> )	536	1,971	8,880
2015	Poultry dressing plants.....	16	7	298	835	260	576	691	1,357	8,651	155	157	574
202	Dairy products.....	357	79	7,430	32,381	4,016	8,101	14,639	61,755	( <sup>2</sup> )	4,288	( <sup>4</sup> )	( <sup>4</sup> )
2024	Ice cream and ices.....	39	13	1,218	5,266	668	1,348	2,507	11,423	23,682	1,178	( <sup>4</sup> )	( <sup>4</sup> )
2026	Fluid milk.....	116	9	848	2,945	587	1,153	1,764	5,208	20,159	444	( <sup>4</sup> )	( <sup>4</sup> )
2027	Fluid milk and other products..	173	54	5,096	23,282	2,548	5,153	9,730	42,472	132,636	2,569	( <sup>4</sup> )	( <sup>4</sup> )
203	Canned and frozen foods.....	105	48	11,744	42,012	9,877	19,650	31,920	107,302	( <sup>2</sup> )	4,608	11,120	67,839
2031	Canned seafood.....	5	3	275	774	255	460	609	1,787	4,464	57	(D)	(D)
2033	Canned fruits and vegetables...	42	24	7,942	29,957	6,626	13,113	22,736	77,788	195,933	3,625	8,088	53,409
2035	Pickles and sauces.....	38	11	1,424	4,953	1,164	2,308	3,791	13,025	49,343	533	1,210	7,757
204	Grain mill products.....	32	9	820	3,185	527	1,064	1,695	9,920	( <sup>2</sup> )	302	1,264	10,322
2042	Prepared animal feeds.....	27	6	538	2,011	344	702	1,091	6,533	29,852	272	932	6,906
205	Bakery products.....	260	70	12,207	48,890	7,303	13,465	25,564	73,203	( <sup>2</sup> )	2,742	9,497	47,318
2051	Bread and related products.....	245	63	9,347	39,107	4,940	9,962	18,377	56,185	106,986	2,101	9,497	47,318
2052	Biscuits and crackers.....	15	7	2,860	9,782	2,363	3,503	7,187	17,017	38,682	640	...	...
207	Candy and related products...	65	22	3,098	11,027	2,496	5,175	7,745	25,895	( <sup>2</sup> )	989	(D)	(D)
2071	Confectionery products.....	58	16	2,759	9,632	2,237	4,634	6,873	22,953	55,618	(D)	2,154	(D)
208	Beverages.....	156	52	11,682	59,873	6,536	12,432	31,626	145,657	( <sup>2</sup> )	8,061	9,536	78,097
2081	Bottled soft drinks.....	128	31	3,716	16,787	1,573	2,905	5,893	29,528	46,552	3,232	2,888	14,005
2082	Beer and ale.....	10	10	7,081	39,340	4,279	8,184	23,102	100,042	162,731	4,370	5,862	55,219
2085	Distilled liquor.....	7	5	583	2,493	458	878	1,826	11,610	18,417	(D)	582	6,839
209	Miscellaneous foods.....	153	44	7,762	33,884	5,862	11,857	23,136	187,955	( <sup>2</sup> )	4,403	7,304	101,486
2091	Leavening compounds.....	6	3	310	1,646	210	361	895	6,204	8,684	178	393	3,287
2092	Shortening and cooking oils....	6	4	854	3,771	647	1,223	2,750	16,546	70,709	549	1,381	30,956
2095	Flavorings.....	26	4	574	2,463	444	868	1,547	16,457	30,303	303	731	12,960
2097	Manufactured ice.....	34	2	295	1,103	217	501	784	2,011	2,458	91	609	3,700
2098	Macaroni and spaghetti.....	7	4	555	2,435	389	819	1,398	4,983	14,951	217	663	(D)
2099	Food preparations, n.e.c.....	70	24	4,908	21,343	3,741	7,630	14,987	139,051	535,313	2,856	(D)	(D)
21	Tobacco manufacturers.....	13	9	3,856	10,590	3,548	6,282	8,994	32,993	( <sup>2</sup> )	511	5,337	29,829
22	Textile mill products.....	786	363	46,117	178,588	39,863	80,011	139,050	275,622	( <sup>2</sup> )	10,380	62,804	323,657
221	Woolen and worsted manufac- ture.....	24	13	6,876	25,097	5,596	10,690	18,935	28,719	( <sup>2</sup> )	682	14,768	60,452
2212	Yarn mills, wool, except carpet	5	2	216	586	201	364	492	909	3,006	3	1,902	6,246
2213	Wollen and worsted fabrics.....	12	6	5,594	19,975	4,625	8,764	15,623	22,762	58,869	194	10,683	46,368
222	Yarn and thread mills.....	27	9	568	1,558	514	944	1,254	2,201	( <sup>2</sup> )	74	(D)	(D)
2222	Yarn throwing mills.....	12	6	384	1,028	344	630	833	1,466	2,998	45	390	1,630
223	Broad-woven fabrics.....	143	62	4,857	16,924	4,350	8,184	13,421	27,781	( <sup>2</sup> )	841	7,618	40,725
2233	Cotton broad-woven fabrics.....	42	20	2,276	8,022	1,996	3,679	6,067	12,839	33,356	253	3,191	16,421
2234	Synthetic broad-woven fabrics..	101	42	2,581	8,902	2,354	4,505	7,354	14,942	33,213	588	4,427	24,304
2241	Narrow fabric mills.....	74	24	1,916	6,653	1,707	3,192	5,320	10,681	17,091	426	2,643	13,095
225	Knitting mills.....	215	93	6,541	20,866	5,985	11,169	17,516	32,693	( <sup>2</sup> )	1,693	7,276	31,631
2251	Full-fashioned hosiery mills...	67	15	984	2,840	886	1,681	2,449	4,032	7,893	297	3,311	15,101
2253	Knit outerwear mills.....	108	60	4,113	11,931	3,801	6,730	10,150	18,740	39,488	851	2,755	9,974
2256	Knit fabric mills.....	32	12	1,051	5,004	931	2,039	3,971	8,400	23,781	520	776	5,171
2261	Finishing textiles exc. wool.	171	102	13,462	59,783	11,649	25,642	46,739	89,111	150,170	2,422	15,448	86,583
227	Carpets and rugs.....	17	12	5,091	20,516	4,309	8,494	16,172	38,211	( <sup>2</sup> )	2,485	6,309	46,485
2271	Wool carpets and rugs.....	8	7	2,696	9,799	2,304	4,126	7,575	16,226	( <sup>2</sup> )	1,829	3,071	23,734
228	Hats, except cloth and mil- linery.....	24	8	618	1,893	551	984	1,410	2,942	( <sup>2</sup> )	53	(D)	(D)
2281	Fur-felt hats and hat bodies...	11	2	174	500	158	273	411	697	1,370	(D)	677	2,608
229	Miscellaneous textile goods..	91	40	6,184	25,294	5,198	10,709	18,280	43,278	( <sup>2</sup> )	1,701	5,771	28,720
2292	Lace goods.....	29	10	914	3,190	847	1,546	2,744	4,783	7,556	329	864	3,985
2293	Padding and upholstery filling.	9	5	710	2,923	624	1,286	2,360	6,101	13,646	213	415	2,347
2295	Coated fabric, exc. rubberized.	19	10	1,933	9,376	1,543	3,569	6,336	15,397	41,761	724	1,757	9,419
2298	Cordage and twine.....	9	3	583	2,316	449	862	1,326	4,518	8,820	65	715	3,964
2299	Textile goods, n.e.c.....	12	9	1,611	5,810	1,378	2,691	4,253	10,479	26,023	293	1,317	(D)
23	Apparel & related products.	2,472	1,071	77,872	213,605	71,822	124,249	179,726	318,725	( <sup>2</sup> )	4,720	70,576	256,395
231	Men's and boys' suits and coats.....	86	60	7,365	21,486	6,961	11,956	19,100	26,231	( <sup>2</sup> )	102	11,115	40,413
2311	Men's and boys' suits & coats..	82	59	7,287	21,330	6,889	11,854	18,960	26,029	41,921	102	(D)	(D)

See footnotes at end of table.



Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manufacture	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
	Apparel and related products—Continued												
232	Men's and boys' furnishings..	145	88	8,396	21,791	7,572	13,583	18,145	34,306	(2)	428	10,052	34,157
2321	Men's dress shirts & nightwear.	37	31	4,083	10,871	3,597	6,909	8,832	19,140	46,637	240	4,978	16,292
2323	Men's and boys' neckwear.....	21	8	454	1,029	428	716	866	1,533	2,465	104	413	1,381
2327	Separate trousers.....	24	16	1,060	2,654	1,012	1,604	2,411	3,214	4,288	11	2,138	7,419
2329	Men's and boys' clothing, n.e.c.	41	24	2,296	5,936	2,067	3,496	4,909	8,557	16,138	56	2,316	8,220
233	Women's and misses' outerwear	742	514	28,109	75,692	26,572	43,774	67,570	100,778	(2)	1,108	22,906	76,002
2331	Blouses.....	62	46	2,447	5,651	2,337	3,996	5,022	7,965	11,584	182	2,500	7,524
2333	Dresses, unit price.....	276	198	9,801	23,248	9,388	14,454	21,062	29,989	46,690	250	8,821	27,186
2334	Dresses, dozen price.....	47	31	1,849	4,374	1,765	3,198	3,939	5,626	10,608	98	2,173	7,099
2337	Women's suits, coats & skirts..	307	213	12,634	39,015	11,815	19,987	34,829	51,766	83,641	541	8,640	31,521
234	Women's undergarments.....	138	94	10,108	27,937	8,869	15,631	21,050	49,779	(2)	714	8,299	31,569
2341	Women's & children's underwear.	85	54	4,936	12,205	4,488	7,772	9,529	20,188	49,412	407	5,031	16,560
2342	Corsets and allied garments....	53	40	5,171	15,731	4,380	7,858	11,520	29,590	59,984	306	3,268	15,009
2351	Millinery.....	20	4	578	1,744	512	872	1,551	3,157	4,749	6	478	2,046
236	Children's outerwear.....	215	148	9,158	23,572	8,593	15,006	20,020	35,760	(2)	385	5,554	16,249
2361	Children's dresses.....	110	83	4,801	11,054	4,515	7,925	9,411	17,546	40,034	192	3,235	8,466
2363	Children's coats.....	66	43	2,978	9,295	2,790	4,897	7,885	14,010	29,502	138	1,468	4,740
2369	Children's outerwear, n.e.c....	39	22	1,378	3,223	1,287	2,183	2,724	4,203	8,820	54	851	3,043
238	Miscellaneous apparel.....	110	62	3,950	9,365	3,691	6,303	7,995	13,775	(2)	153	3,799	13,954
2382	Fabric work gloves.....	4	4	213	538	200	337	454	815	1,818	10	134	(D)
2384	Robes and dressing gowns.....	23	14	712	1,612	673	1,160	1,426	2,047	3,552	17	534	1,486
2385	Waterproof outer garments.....	19	12	561	1,252	522	881	1,119	1,882	3,347	23	581	1,527
2386	Leather & sheep-lined clothing.	17	9	662	1,935	610	1,010	1,629	2,919	6,350	(D)	(D)	(D)
2387	Belts.....	11	6	500	1,321	447	832	956	2,268	4,529	61	532	2,060
2388	Handkerchiefs.....	24	14	1,160	2,373	1,115	1,864	2,132	3,243	6,946	11	1,459	6,362
239	Fabricated textiles, n.e.c....	1,003	101	10,160	31,876	9,016	17,065	24,186	54,660	(2)	1,802	8,256	41,674
2391	Curtains and draperies.....	21	5	639	1,660	568	1,027	1,320	2,945	8,652	98	434	2,346
2392	House furnishings, n.e.c.....	63	26	1,708	4,903	1,496	2,884	3,537	7,929	20,362	217	1,239	4,920
2393	Textile bags.....	7	2	207	583	176	311	403	756	5,285	22	177	1,755
2394	Canvas products.....	54	1	252	759	206	396	545	1,361	2,604	53	349	1,288
2395	Tucking, pleating & stitching..	57	11	507	1,179	489	791	1,053	2,012	2,462	44	604	1,722
2396	Trimings and art goods.....	35	5	400	1,042	365	681	837	1,738	2,729	28	171	729
2397	Schiffli-machine embroideries...	493	33	4,260	15,667	3,759	7,497	11,752	27,527	53,794	951	3,623	22,590
2398	Embroideries, except schiffli...	212	9	1,286	3,333	1,210	2,099	2,701	5,968	8,747	262	931	3,435
2399	Textile products, n.e.c.....	61	9	896	2,746	744	1,377	2,034	4,419	10,067	122	728	2,889
24	Lumber and wood products...	343	65	5,284	18,121	4,420	8,962	13,518	28,759	(2)	975	(4)	(4)
242	Lumber and basic products....	61	6	847	2,619	724	1,365	2,166	3,800	(2)	141	440	3,026
2421	Sawmills and planing mills.....	58	6	831	2,599	709	1,342	2,146	3,758	7,170	(D)	266	(D)
243	Millwork and related products	112	19	1,482	6,177	1,115	2,266	4,109	9,739	(2)	357	1,474	7,112
2431	Millwork plants.....	107	17	1,320	5,549	1,012	2,078	3,680	8,295	20,429	345	714	3,565
244	Wooden containers.....	72	22	1,746	5,235	1,541	3,221	4,170	8,326	(2)	201	1,996	8,662
2441	Fruit and vegetables baskets...	10	6	550	1,305	509	1,083	1,169	1,856	3,497	51	594	2,081
2444	Wooden boxes.....	50	12	922	3,071	779	1,610	2,299	5,275	11,818	108	1,015	4,658
249	Miscellaneous wood products..	78	18	1,152	3,985	994	2,017	2,984	6,660	(2)	256	838	4,467
2491	Wood preserving.....	5	3	132	493	106	217	362	895	2,463	15	207	(D)
2493	Mirror and picture frames.....	9	2	194	612	183	376	543	1,053	1,890	6	112	(D)
2499	Wood products, n.e.c.....	64	13	826	2,879	704	1,423	2,078	4,711	8,749	235	509	3,036
25	Furniture and fixtures.....	372	87	8,558	32,764	6,845	13,440	23,939	56,322	(2)	1,291	7,516	35,740
251	Household furniture.....	226	61	6,291	24,303	5,058	9,805	17,861	42,751	(2)	989	4,857	23,534
2511	Wood furniture, not upholstered	111	27	2,046	6,984	1,692	3,485	5,089	11,842	24,797	208	1,463	5,669
2512	Upholstered, household furniture	38	13	1,075	4,150	901	1,708	3,127	7,754	15,396	37	436	2,122
2514	Metal household furniture.....	21	8	572	1,976	477	951	1,483	3,281	7,014	419	428	(D)
2515	Mattresses and bed springs....	56	13	2,596	11,192	1,988	3,660	8,160	19,872	42,524	324	2,348	12,193
252	Office furniture.....	7	2	672	2,606	523	1,082	1,901	3,494	(2)	(D)	553	2,518
253	Public and professional furniture.....	5	3	166	508	151	319	407	837	(2)	(D)	(D)	(D)
2541	Partitions and fixtures.....	68	11	767	3,265	601	1,221	2,393	5,552	9,584	68	633	2,311
256	Screens, shades and blinds...	61	8	519	1,557	387	759	954	2,663	(2)	56	(D)	(D)
2562	Window shades.....	14	2	158	534	113	252	325	527	1,930	(D)	71	(D)
2563	Venetian blinds.....	40	5	289	787	214	397	468	1,625	4,379	31	400	(D)
259	Furniture and fixtures, n.e.c.	5	2	141	523	123	252	421	1,022	(2)	(D)	250	1,189

See footnotes at end of table.



## MANUFACTURES—AREA STATISTICS

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947--Continued

(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
26	Pulp, paper, and products..	312	186	25,419	112,460	20,458	43,112	80,661	206,225	( <sup>2</sup> )	14,396	21,416	155,605
261	Pulp, paper and board.....	47	42	6,695	32,524	5,651	12,395	25,820	60,447	( <sup>2</sup> )	6,204	6,914	62,142
2611	Pulp mills.....	6	2	107	461	96	187	401	1,480	3,161	59	106	1,178
2641	Paper coating and glazing....	21	9	2,020	9,638	1,479	3,228	6,141	22,843	56,682	(D)	1,562	14,583
2651	Envelopes.....	5	4	307	1,313	255	585	916	1,969	3,704	(D)	(D)	(D)
2661	Paper bags.....	17	11	1,006	3,921	733	1,472	2,304	7,384	17,576	408	555	3,101
267	Paperboard containers.....	140	88	10,886	45,543	8,757	18,136	31,357	77,448	( <sup>2</sup> )	3,098	8,164	53,017
2671	Paperboard boxes.....	109	75	9,350	39,404	7,383	15,270	26,617	67,490	156,916	2,470	7,096	49,005
2674	Fiber cans, tubes, drums, etc..	31	13	1,535	6,139	1,373	2,865	4,739	9,957	18,522	627	1,068	4,012
269	Pulp, paper, and products, n.e.c.....	82	32	4,502	19,519	3,582	7,295	14,121	36,131	( <sup>2</sup> )	1,510	4,016	21,347
2691	Die-cut paper and board.....	29	10	855	3,740	625	1,279	2,220	6,798	16,399	(D)	186	(D)
2699	Paper and board products, nec..	49	22	3,625	15,681	2,937	5,975	11,807	29,191	66,842	802	3,697	20,058
27	Printing and publishing....	1,058	178	24,630	113,087	17,106	32,946	77,153	176,551	( <sup>2</sup> )	8,557	20,152	109,228
2711	Newspapers.....	200	49	7,401	33,775	3,648	7,076	17,546	56,990	78,109	2,051	6,093	34,763
2721	Periodicals.....	49	7	522	2,028	107	235	482	5,366	9,397	62	257	3,367
273	Books.....	42	9	1,204	5,031	841	1,541	3,360	9,180	( <sup>2</sup> )	500	176	1,210
2731	Books; publishing and printing.	20	5	346	1,220	110	169	293	4,056	6,789	56	41	(D)
2732	Book printing.....	22	4	857	3,811	730	1,372	3,067	5,124	6,729	444	135	936
2741	Miscellaneous publishing.....	34	5	409	1,782	98	201	388	4,099	6,272	449	187	1,686
2751	Commercial printing.....	448	52	9,412	45,714	7,845	15,049	36,792	64,250	106,594	2,692	7,808	40,134
2761	Lithographing.....	106	22	2,502	12,045	1,894	3,550	8,366	17,387	29,204	2,154	2,426	13,649
2771	Greeting cards.....	10	3	190	629	138	257	338	1,135	1,961	23	250	727
278	Bookbinding and related industries.....	56	12	1,747	5,997	1,555	3,145	5,138	9,560	( <sup>2</sup> )	279	1,948	8,212
2781	Bookbinding.....	30	5	490	1,516	449	882	1,280	2,607	3,331	99	997	4,221
2782	Blankbooks and paper ruling....	15	4	654	2,358	589	1,186	2,004	3,230	5,292	117	133	(D)
279	Printing trade services.....	113	19	1,241	6,085	977	1,888	4,741	8,579	( <sup>2</sup> )	342	1,007	5,480
2791	Typesetting.....	39	3	228	980	186	348	807	1,442	1,650	164	114	611
2792	Engraving and plate printing...	41	9	579	2,588	491	918	2,074	3,666	4,553	76	509	2,438
2793	Photoengraving.....	28	6	380	2,239	259	555	1,659	3,066	3,625	97	337	2,143
28	Chemicals and products.....	844	384	81,731	400,885	52,426	105,575	224,552	1,121,765	( <sup>2</sup> )	86,381	82,221	743,342
281	Inorganic chemicals.....	46	33	4,404	20,670	3,232	6,512	13,821	53,639	( <sup>2</sup> )	3,851	5,342	42,398
282	Organic chemicals.....	108	70	30,565	160,569	20,366	40,023	95,006	379,897	( <sup>2</sup> )	37,314	32,794	246,944
2822	Intermediates & organic colors.	31	21	9,141	47,506	5,639	10,957	25,864	92,307	178,937	13,219	(NA)	(NA)
2823	Plastic materials.....	31	19	6,763	32,784	4,626	9,359	19,953	80,748	173,234	8,687	8,827	66,284
2829	Organic chemicals, n.e.c.....	40	24	12,633	70,552	8,599	16,765	42,467	185,581	357,949	13,553	(NA)	(NA)
283	Drugs and medicines.....	99	45	13,757	66,476	8,123	17,113	33,856	198,330	( <sup>2</sup> )	10,888	13,010	130,460
2831	Biological products.....	6	2	131	470	90	165	252	1,211	2,193	60	78	(D)
2833	Medicinal chem., inc. botanicals.	21	13	3,813	17,979	2,569	5,145	10,683	34,233	78,962	1,897	5,542	(D)
2834	Pharmaceutical preparations....	72	30	9,813	48,027	5,463	11,803	22,920	162,885	214,392	8,930	7,390	80,810
284	Soap and related products....	127	38	9,264	47,063	4,756	9,427	19,777	113,018	( <sup>2</sup> )	7,492	7,239	73,849
2841	Soap and glycerin.....	21	8	6,109	32,401	2,937	5,796	13,613	72,194	134,288	5,448	5,012	49,146
2842	Cleaning and polishing products	84	21	2,211	9,319	1,306	2,602	4,188	30,222	69,086	939	1,360	16,145
2843	Sulfonated oils and assistants.	22	9	943	5,343	512	1,028	1,975	10,601	25,727	1,105	867	8,558
285	Paints and allied products...	176	72	9,913	47,739	6,564	13,487	27,788	153,119	( <sup>2</sup> )	5,558	9,553	76,281
2851	Paints and varnishes.....	155	65	7,428	35,972	4,665	9,458	19,172	89,024	219,410	4,409	7,135	58,302
2852	Inorganic color pigments.....	16	6	2,424	11,521	1,850	3,923	8,442	63,511	89,550	(D)	2,370	17,697
286	Gum and wood chemicals.....	7	2	116	515	91	191	274	1,079	2,789	150	173	(D)
3865	Tanning and dyeing materials...	7	2	116	515	91	191	274	1,079	2,789	150	173	(D)
287	Fertilizers.....	19	9	1,045	4,188	810	1,749	3,095	6,882	( <sup>2</sup> )	1,760	(D)	(D)
2871	Fertilizers.....	4	4	807	3,420	633	1,376	2,604	5,342	16,088	1,661	842	5,778
2872	Fertilizers, mixing only.....	15	5	238	768	177	373	491	1,540	6,158	99	166	(D)
288	Vegetables and animal oils...	30	18	2,372	10,126	1,787	3,907	7,039	35,368	( <sup>2</sup> )	3,525	2,040	39,833
2886	Grease and tallow.....	16	6	673	2,958	463	990	1,853	3,642	11,020	143	700	6,677
2889	Animal oils, n.e.c.....	6	4	313	1,185	277	669	1,019	5,037	16,259	2,076	(D)	(D)
289	Chemical products, n.e.c.....	232	97	10,291	43,537	6,694	13,162	23,893	180,429	( <sup>2</sup> )	15,839	11,062	124,874
2891	Printing ink.....	28	17	1,530	7,328	1,092	2,259	4,625	20,684	44,715	3,852	485	5,441
2892	Essential oils.....	6	4	185	902	110	216	444	1,496	6,515	75	271	(D)
2893	Toilet preparation.....	57	30	5,244	21,285	3,283	6,241	10,770	115,154	166,142	2,213	5,749	82,471
2894	Glue and gelatin.....	19	5	626	2,527	447	991	1,676	7,980	14,160	428	550	(D)
2896	Compressed and liquefied gases.	20	12	916	3,811	564	1,055	2,121	9,554	12,930	(D)	580	5,026
2897	Insecticides and fungicides....	13	5	303	1,268	218	444	776	2,597	8,389	71	844	5,027
2899	Chemical products, n.e.c.....	89	24	1,485	6,414	978	1,955	3,478	22,961	45,895	(D)	2,521	19,034

See footnotes at end of table.

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
29	Petroleum and coal products	71	35	17,233	92,624	12,014	23,524	61,039	150,048	(2)	55,913	16,179	212,732
295	Paving and roofing materials.	35	13	2,108	9,088	1,628	3,373	6,703	19,316	(2)	1,382	2,629	17,698
2951	Paving mixtures and blocks.....	16	1	220	954	173	338	606	2,958	7,859	377	60	(D)
2952	Roofing felts and coatings.....	19	12	1,888	8,134	1,455	3,035	6,097	16,358	48,327	1,005	2,569	17,171
30	Rubber products.....	101	59	14,083	58,368	11,058	21,745	41,223	96,467	(2)	3,412	16,884	82,060
31	Leather and leather goods..	208	106	11,275	36,126	10,186	19,470	28,730	56,178	(2)	1,091	10,185	50,760
3111	Leather tanning and finishing	57	31	3,079	12,416	2,719	5,387	9,856	20,023	48,655	662	3,319	25,528
314	Footwear, except rubber.....	21	13	1,677	5,520	1,528	2,857	4,484	8,065	(2)	86	1,684	6,098
3141	Footwear, except rubber.....	13	7	927	2,802	833	1,560	2,342	4,244	7,655	51	1,136	4,283
3142	House slippers.....	8	6	750	2,718	695	1,297	2,142	3,820	7,446	35	548	1,815
3161	Luggage.....	39	19	1,934	6,727	1,693	3,239	5,013	11,056	20,638	95	1,478	5,892
317	Purses and small leather goods.....	67	40	4,361	10,909	4,048	7,636	8,912	16,040	(2)	237	2,651	8,962
3171	Handbags and purses.....	47	30	3,193	7,811	2,992	5,691	6,556	11,227	22,291	183	2,069	7,551
3172	Small leather goods.....	20	10	1,168	3,098	1,056	1,944	2,355	4,813	8,299	54	582	1,411
319	Miscellaneous leather goods..	21	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3199	Leather goods, n.e.c.....	20	2	180	442	158	279	358	860	1,690	7	888	3,803
32	Stone, clay, and glass products.....	470	173	31,250	126,304	25,785	51,462	95,869	221,271	(2)	18,924	28,275	142,554
322	Pressed and blown glassware..	47	19	9,338	35,731	8,055	15,673	28,632	66,529	(2)	8,851	8,338	37,796
3231	Products of purchased glass..	50	15	1,148	3,729	1,016	2,050	2,902	6,591	12,300	189	2,071	9,041
325	Structural clay products.....	28	21	2,004	8,141	1,735	3,698	6,642	12,300	(2)	1,209	(D)	(D)
3253	Floor and wall tile.....	4	4	712	2,999	637	1,400	2,500	4,554	7,140	202	527	2,999
326	Pottery and related products.	61	30	6,161	24,468	5,164	10,008	18,959	38,565	(2)	1,493	6,721	28,654
3269	Pottery products, n.e.c.....	25	5	494	1,660	437	814	1,136	2,193	2,958	29	525	1,697
327	Concrete and plaster products	169	40	3,555	14,884	2,706	5,897	10,099	30,598	(2)	1,913	2,641	14,878
3271	Concrete products.....	161	34	2,722	10,826	2,101	4,599	7,602	22,885	41,806	1,697	1,951	10,410
3281	Cut-stone and stone products.	16	5	461	2,287	371	795	1,799	3,792	6,569	103	147	730
329	Nonmetallic mineral products, n.e.c.....	99	43	8,580	37,062	6,736	13,339	26,833	62,892	(2)	5,163	(D)	(D)
3291	Abrasive products.....	19	5	584	2,968	427	838	1,748	4,787	9,040	104	638	4,025
3292	Asbestos products.....	16	11	4,551	20,082	3,662	7,377	15,523	36,823	61,651	3,239	4,390	28,385
3293	Gaskets & asbestos insulations.	23	10	1,657	6,335	1,355	2,421	4,743	7,556	21,174	841	541	2,034
3295	Minerals: ground or treated...	13	4	442	1,987	340	867	1,331	3,425	6,178	201	149	1,169
33	Primary metal industries...	312	161	36,208	165,056	29,436	59,612	122,794	288,668	(2)	17,420	38,802	216,426
332	Iron and steel foundries.....	64	51	7,826	33,932	6,655	13,101	26,088	52,975	(2)	1,893	9,106	39,524
3321	Gray-iron foundries.....	49	41	5,841	25,426	5,067	10,031	19,840	41,711	68,839	1,512	7,192	32,536
3341	Secondary nonferrous metals..	27	13	1,625	7,348	1,217	2,441	4,732	10,376	83,144	923	1,350	8,748
335	Nonferrous rolling and drawing.....	23	17	5,990	27,904	4,886	10,178	19,917	63,024	(2)	4,585	8,070	56,646
3351	Copper rolling and drawing....	7	5	2,674	12,421	2,362	4,863	10,441	25,752	142,306	1,081	(D)	(D)
3361	Nonferrous foundries.....	100	28	3,361	15,358	2,854	5,977	11,955	21,793	37,805	1,601	2,771	(D)
339	Primary metal industries, n.e.c.....	89	44	9,895	46,523	7,853	15,794	34,119	86,448	(2)	5,227	(D)	(D)
3391	Iron and steel forgings.....	11	7	931	4,318	791	1,609	3,311	6,632	12,275	197	1,194	6,137
3392	Wire drawing.....	33	20	6,293	29,615	5,053	10,107	22,261	58,119	154,918	3,466	5,154	34,907
3393	Welded and heavy-riveted pipe..	6	3	735	3,720	554	1,068	2,399	6,855	16,561	377	(D)	(D)
3399	Primary metal industries,n.e.c.	39	14	1,935	8,869	1,453	3,010	6,147	14,842	37,768	1,186	2,591	14,582
34	Fabricated metal products..	1,298	384	51,196	226,851	42,071	85,992	167,769	419,672	(2)	22,437	42,876	216,416
3411	Tin cans and other tinware...	13	12	4,973	24,045	4,423	9,010	20,536	48,392	132,126	3,902	3,775	20,016
342	Cutlery, tools, and hardware.	115	38	9,704	41,139	8,301	17,000	31,918	79,617	(2)	4,827	10,025	53,004
3421	Cutlery.....	37	13	2,035	8,015	1,743	3,706	5,928	14,235	19,371	199	3,516	18,992
3423	Hand tools, n.e.c.....	26	9	1,146	4,314	985	2,006	3,253	6,853	13,003	274	1,016	5,066
3429	Hardware, n.e.c.....	40	14	6,392	28,313	5,452	11,070	22,376	57,858	103,083	4,326	5,251	28,135
343	Heating and plumbing equip-ment.....	66	22	4,489	20,832	3,402	6,584	14,186	38,098	(2)	2,165	4,747	22,282
344	Structural metal products....	429	119	10,798	50,178	8,387	17,247	35,115	94,448	(2)	4,090	6,639	37,924
3441	Structural and ornamental work.	159	43	4,667	22,368	3,618	7,339	15,720	52,082	93,661	2,066	2,644	15,612
3442	Metal doors, sash, and trim....	66	19	1,345	4,996	1,023	2,106	3,272	8,840	19,318	601	910	4,446
3443	Boiler shop products.....	58	23	2,148	10,333	1,614	3,323	7,036	13,601	27,644	669	1,499	9,394
3444	Sheet-metal work.....	146	34	2,637	12,481	2,131	4,478	9,085	19,923	31,129	753	1,586	8,472
346	Metal stamping and coating...	317	82	6,950	28,340	5,851	11,929	20,781	48,388	(2)	2,252	5,043	23,261
3463	Metal stamping.....	141	50	4,474	19,200	3,764	7,570	14,042	33,011	59,009	1,727	3,204	15,162
3466	Galvanizing.....	10	4	348	1,134	282	651	830	1,590	2,299	39	389	(D)
3467	Engraving on metal.....	20	2	237	799	199	380	673	1,456	1,943	30	81	(D)
3468	Plating and polishing.....	122	20	1,586	6,082	1,348	2,827	4,445	10,751	14,574	351	1,178	5,550

See footnotes at end of table.



Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954										1947	
		Establishments, number		All employees		Production workers			Value added by manufacture	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
3471	Fabricated metal products—Continued												
348	Lighting fixtures.....	77	31	2,731	10,869	2,256	4,932	7,715	17,374	36,675	549	2,344	10,120
	Fabricated wire products.....	65	21	3,715	15,773	3,144	6,229	12,210	29,740	( <sup>2</sup> )	981	3,848	16,618
349	Metal products, n.e.c.....	216	59	7,834	35,672	6,303	13,059	25,304	63,614	( <sup>2</sup> )	3,669	6,455	33,191
3491	Metal barrels, drums and pails.	7	5	869	4,808	710	1,616	3,659	8,945	21,988	671	504	4,322
3494	Bolts, nuts, washers, & rivets.	24	11	2,165	11,097	1,570	3,364	7,271	21,513	31,335	613	1,376	8,181
3495	Screw machine products.....	105	21	1,346	5,549	1,141	2,300	3,978	10,292	16,084	717	1,007	5,093
3496	Collapsible tubes.....	8	8	1,661	6,334	1,436	2,840	4,723	10,167	16,177	(D)	1,500	7,161
3499	Fabricated metal prod., n.e.c...	55	8	887	3,636	772	1,531	2,782	6,717	12,451	182	493	2,450
35	Machinery, except elec-												
	trical.....	1,433	367	68,786	325,102	50,019	102,199	215,654	528,527	( <sup>2</sup> )	27,397	65,990	334,338
352	Tractors and farm machinery..	21	4	233	880	181	376	620	2,120	3,533	54	423	2,601
3522	Farm machinery (exc. tractors).	21	4	233	880	181	376	620	2,120	3,533	54	423	2,601
353	Construction and mining machinery.....	25	13	2,141	9,258	1,638	3,341	6,628	14,622	( <sup>2</sup> )	1,182	2,886	15,074
354	Metalworking machinery.....	409	58	8,301	40,393	6,191	13,084	27,297	62,246	( <sup>2</sup> )	4,085	8,063	41,482
3541	Machine tools.....	27	4	870	4,304	629	1,283	2,608	6,823	9,993	217	1,270	8,685
3542	Metalworking machinery.....	25	12	3,489	16,850	2,261	4,513	9,740	24,977	36,189	1,613	4,444	20,261
3544	Special dies and tools.....	319	36	3,536	17,231	3,004	6,638	13,630	27,300	35,268	1,766	2,349	12,536
3545	Metalworking mach. attachments.	38	6	404	2,007	295	648	1,318	3,145	4,657	488		
355	Special-industry machinery, n.e.c.....	210	80	10,611	53,022	7,435	15,213	33,193	84,844	( <sup>2</sup> )	2,936	10,767	62,661
3552	Textile machinery.....	66	16	1,786	8,458	1,417	2,827	5,730	13,757	22,788	291	2,515	16,088
3554	Paper-industries machinery.....	12	9	1,133	6,601	869	2,017	4,534	10,193	17,586	621	922	5,430
3555	Printing-trades machinery.....	34	12	2,526	13,627	1,717	3,369	8,306	17,562	23,725	572	2,848	16,912
3559	Special-industry mach., n.e.c...	76	33	4,397	19,722	2,890	5,908	11,940	34,661	54,088	989	3,266	18,167
356	General industrial machinery.	144	72	19,674	94,552	13,162	26,988	58,838	182,565	( <sup>2</sup> )	5,791	16,603	84,269
3561	Pumps and compressors.....	23	13	7,610	33,629	5,049	10,401	20,960	64,553	122,815	1,868	7,934	33,980
3563	Conveyors.....	19	8	1,116	5,358	725	1,382	3,038	9,215	19,759	366	883	5,816
3566	Power-transmission equipment...	16	10	1,593	7,432	1,136	2,319	4,852	12,716	18,994	613	1,351	6,020
3567	Industrial furnaces and ovens..	14	8	786	4,047	530	1,109	2,452	6,507	13,830	203	544	3,549
3569	General industrial mach., n.e.c...	57	23	4,279	21,927	2,801	5,926	13,182	34,362	59,626	2,084	2,721	11,824
357	Office and store machines....	26	15	4,472	19,530	3,203	6,292	12,204	30,944	( <sup>2</sup> )	1,305	3,626	20,672
3579	Office and store mach., n.e.c...	13	7	1,906	8,074	1,430	2,982	5,531	13,575	19,269	374	1,700	8,527
358	Service and household machines.....	50	22	10,441	48,330	7,912	15,849	34,180	60,283	( <sup>2</sup> )	1,778	12,956	52,789
3585	Refrigeration machinery.....	20	11	3,568	16,061	2,576	4,858	9,964	21,210	( <sup>2</sup> )	819	3,002	11,368
359	Miscellaneous machine parts..	544	103	12,877	59,064	10,268	21,004	42,642	90,711	( <sup>2</sup> )	(D)	10,591	54,335
3591	Valves & fittings, exc. plumbing	32	18	2,316	10,725	1,682	3,414	6,850	16,984	28,209	668	2,126	11,169
3592	Fabricated pipe and fittings...	12	8	564	2,595	393	796	1,575	3,386	7,879	115	1,175	(D)
3593	Ball and roller bearings.....	8	7	3,962	18,730	3,155	6,209	13,689	28,904	45,908	(D)	3,901	(D)
3594	Industrial patterns and molds...	124	19	1,280	6,221	1,094	2,361	4,879	9,636	12,517	456	(D)	(D)
3599	Machine shops.....	368	51	4,755	20,792	3,942	8,222	15,647	31,800	47,849	(D)	2,661	12,239
36	Electrical machinery.....	541	272	103,452	444,410	77,085	149,620	288,472	774,794	( <sup>2</sup> )	30,948	94,129	393,992
361	Electrical industrial apparatus.....	190	92	25,462	107,315	19,574	37,278	74,866	185,743	( <sup>2</sup> )	5,601	20,106	92,537
3611	Wiring devices and supplies....	42	16	3,251	12,575	2,634	5,522	9,131	22,205	40,576	899	2,812	(D)
3613	Elec. measuring instruments....	43	21	7,795	35,596	6,031	12,159	24,428	57,785	78,055	1,342	6,100	32,649
3614	Motors and generators.....	18	12	7,579	33,245	5,652	9,105	22,779	50,057	82,496	850	5,868	(D)
3616	Electrical control apparatus...	30	15	3,135	13,050	2,362	4,636	8,485	27,386	44,248	(D)	1,774	7,848
3617	Electrical welding apparatus...	7	3	147	703	100	231	387	1,329	2,988	61	82	(D)
2621	Electrical appliances.....	15	5	297	968	233	403	560	1,906	3,461	42	305	(D)
3631	Insulated wire and cable.....	19	11	3,456	15,732	2,837	5,786	12,012	32,677	99,988	1,843	5,259	28,851
3641	Engine electrical equipment...	15	8	2,051	8,707	1,461	2,847	5,267	10,864	19,576	1,333	519	1,424
3651	Electric lamps (bulbs).....	13	11	6,661	26,200	5,441	10,711	19,016	42,862	64,917	2,145	9,394	38,398
366	Communication equipment.....	252	132	62,223	272,429	45,015	87,697	167,503	475,444	( <sup>2</sup> )	17,983	54,932	210,085
3661	Radios and related products....	188	93	38,036	166,453	28,235	56,098	103,392	293,793	( <sup>2</sup> )	9,406	22,008	88,071
3663	Phonograph records.....	14	7	669	2,490	580	1,193	2,033	5,801	9,925	561	2,052	(D)
3669	Communication equipment, n.e.c...	10	2	130	474	97	190	314	751	1,403	16	442	1,218
369	Electrical products, n.e.c....	37	13	3,300	13,057	2,522	4,896	9,246	25,294	( <sup>2</sup> )	1,999	(D)	(D)
3691	Storage batteries.....	12	5	2,003	8,129	1,460	2,892	5,774	16,694	36,188	1,528	2,232	(D)
3699	Electrical products, n.e.c....	14	6	720	2,659	625	1,200	2,044	5,223	10,283	(D)	545	2,906

See footnotes at end of table.



Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
37	Transportation equipment...	209	88	54,235	263,184	39,951	79,810	176,071	481,257	( <sup>2</sup> )	8,050	44,300	221,997
371	Motor vehicles and equipment.	53	22	14,269	73,481	11,548	24,612	55,827	200,391	( <sup>2</sup> )	5,588	13,939	95,287
3713	Truck and bus bodies.....	22	8	607	2,734	487	1,061	1,919	4,810	9,750	(D)	945	(D)
3717	Motor vehicles and parts.....	26	13	13,552	70,208	10,965	23,352	53,515	194,986	( <sup>2</sup> )	5,566	12,863	90,190
372	Aircraft and parts.....	57	34	28,230	135,743	17,966	35,202	75,219	214,284	( <sup>2</sup> )	1,536	7,653	(D)
373	Ships and boats.....	94	30	11,101	50,940	9,909	18,940	42,807	61,508	( <sup>2</sup> )	620	18,374	70,318
3731	Ship building and repairing....	23	16	10,185	47,634	9,124	17,445	40,129	56,885	80,329	453	16,131	62,246
3732	Boat building and repairing..	71	14	915	3,305	784	1,494	2,677	4,622	7,935	167	2,243	8,072
38	Instruments and related products.....	188	67	25,863	124,866	17,746	36,872	76,120	194,243	( <sup>2</sup> )	10,095	17,741	80,968
3811	Scientific instruments.....	34	11	12,321	63,955	8,306	17,365	39,843	94,034	165,788	2,758	5,959	24,035
3821	Mechanical measuring instruments.....	39	15	1,864	7,835	1,443	2,803	5,249	14,070	22,061	723	1,596	6,412
3831	Optical instruments & lenses.	14	1	118	465	89	176	306	682	987	19	31	(D)
384	Medical equipment and supplies.....	46	14	6,310	29,249	3,915	8,475	15,027	49,907	( <sup>2</sup> )	2,931	5,851	28,610
3841	Surgical & medical instruments.	19	7	2,215	7,269	1,852	4,334	6,620	15,768	23,940	(D)	2,288	(D)
3861	Photographic equipment.....	27	12	4,024	19,041	2,989	6,023	12,617	28,843	58,871	3,277	2,657	15,954
387	Watches and clocks.....	9	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3872	Watch cases.....	3	3	258	991	213	448	821	1,332	3,083	(D)	(D)	(D)
39	Miscellaneous manufactures.	898	321	40,365	153,967	32,436	62,195	105,194	252,617	( <sup>2</sup> )	9,715	41,709	201,950
391	Jewelry and silverwear.....	125	37	4,231	17,728	3,365	6,637	11,812	25,137	( <sup>2</sup> )	409	5,596	32,310
3911	Jewelry (precious metal).....	77	25	2,849	12,653	2,184	4,304	7,849	18,259	28,990	198	3,777	23,665
3912	Jewelers' findings.....	22	4	504	1,747	425	840	1,249	2,677	6,675	(D)	241	(D)
3913	Lapidary work.....	7	2	199	713	189	382	571	998	2,214	(D)	(D)	(D)
3914	Silverware and plated ware.....	19	6	678	2,614	566	1,109	2,141	3,201	5,414	80	924	5,002
393	Musical instruments and parts	7	4	170	556	158	307	478	821	( <sup>2</sup> )	3	456	2,137
394	Toys and sporting goods.....	111	45	6,839	21,866	6,113	11,412	17,652	37,242	( <sup>2</sup> )	1,777	5,428	23,241
3941	Games and toys, n.e.c.....	64	29	4,833	14,971	4,438	8,262	12,773	26,642	43,600	1,463	3,900	18,756
3942	Dolls.....	18	6	1,278	4,275	1,083	2,025	3,021	6,536	10,279	288	966	3,250
395	Office supplies.....	57	25	4,027	15,833	2,940	5,841	9,451	27,337	( <sup>2</sup> )	832	4,370	21,374
3952	Lead pencils and crayons.....	8	5	851	3,078	551	988	1,639	4,338	7,711	154	1,563	(D)
3953	Hand stamp and stencils.....	18	2	223	820	167	348	561	1,189	1,827	20	297	(D)
3955	Carbon paper and inked ribbons.	7	4	698	2,516	499	1,020	1,456	4,758	12,265	207	(D)	(D)
396	Costume jewelry and notions..	95	34	3,164	10,511	2,610	4,984	7,218	14,539	( <sup>2</sup> )	575	5,596	25,648
3961	Costume jewelry.....	28	9	519	1,362	466	914	1,041	2,086	3,797	27	2,724	(D)
3962	Artificial flowers.....	19	3	204	442	193	366	397	725	1,275	(D)	241	(D)
3963	Buttons.....	31	14	683	2,121	607	1,164	1,572	3,079	6,534	(D)	794	2,423
3964	Needles, pins, and fasteners...	17	8	1,757	6,585	1,342	2,539	4,207	8,648	14,384	(D)	1,837	(D)
3971	Plastics products, n.e.c.....	198	76	7,752	30,817	6,200	12,095	20,941	53,707	105,561	3,983	6,324	29,763
398 399	} Miscellaneous manufactures <sup>5</sup> ..	305	100	14,179	56,652	11,046	20,917	37,639	93,831	( <sup>2</sup> )	2,134	13,939	67,477
3981	Brooms and brushes.....	27	10	952	3,527	682	1,296	2,021	6,081	11,428	(D)	1,269	6,875
3982	Cork products.....	7	4	658	2,335	577	1,124	1,858	8,115	16,498	68	1,252	6,434
3986	Jewelry and instrument cases...	12	5	707	2,275	593	1,131	1,614	3,496	5,627	86	548	(D)
3988	Morticians' goods.....	12	3	177	656	139	292	421	1,001	2,203	27	133	956
3992	Furs, dressed and dyed.....	13	7	931	4,087	796	987	3,300	5,157	6,287	125	2,381	15,040
3993	Signs and advertising displays.	93	10	1,468	5,770	1,193	2,412	4,085	9,622	17,071	193	1,101	4,547
3994	Hairwork.....	5	2	175	578	152	283	393	866	1,598	5	113	(D)
3997	Soda-fountain and bar equipment	5	3	129	509	106	185	320	572	1,112	...	131	(D)
3999	Miscellaneous products, n.e.c..	62	19	4,157	18,407	2,634	5,121	9,292	29,607	57,052	1,108	4,413	19,749
1900	Ordnance and accessories.....	16	15	2,721	11,955	2,317	4,613	9,533	19,213	( <sup>2</sup> )	196	(D)	(D)

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industries (4-digit) and industry groups (3-digit) are not shown. Industries and industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "all industries" line.<sup>2</sup>The total value of shipments figures for industry groups and a few individual industries have not been published due to the extensive and unmeasurable duplication arising from shipments from one establishment to another in the same industry classification. (See Introduction.)<sup>3</sup>The 1954 and 1947 "all industries" totals are not strictly comparable because of differences in scope between the two years in major groups 20 and 24 (see footnote 4).

Footnotes continued on next page.

Footnotes for Table 4—Continued.

<sup>4</sup>Comparable data for major groups 20 and 24 are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude establishments in S.I.C. Industry 2411, Logging Camps and Contractors, which are included in the scope of the 1954 Census; the 1947 Census also excludes plants processing and distributing fluid milk which in 1954 were classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
20	Food and kindred products except subgroup 202, Dairy products.....	52,742	588,711	46,000	347,000
24	Lumber and wood products except Industry 2411, Logging camps and contractors.....	5,229	28,322	4,748	23,267

<sup>5</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)

Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947  
(For explanation of column captions see Introduction)

Code	Industry group	Establish- ments, number	1954						1947			
			All employees		Production workers			Value added by manufacture	Capital expendi- tures, new	All employees, number	Value added by manufacture	
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
"All manufacturing" totals for the Allentown-Bethlehem-Easton Standard Metropolitan Area (which includes Warren County in New Jersey) appear in Table 3. Industry group statistics for this area are shown in the 1954 Census of Manufactures report for the State of Pennsylvania.												
NEW YORK-NORTHEASTERN NEW JERSEY STANDARD METROPOLITAN AREA (Consists of New York City (Bronx, Kings, New York, Queens, and Richmond Counties); Nassau, Rockland, Suffolk, and Westchester Counties, New York; Bergen, Essex, Hudson, Middlesex, Morris, Passaic, Somerset, and Union Counties, New Jersey)												
	All industries, total <sup>1</sup> ...	51,403	1,731,977	7,095,016	1,336,116	2,566,509	4,714,688	13,115,922	444,124	<sup>2</sup> 1,598,662	<sup>2</sup> 9,310,900	
20	Food and kindred products...	2,526	131,941	582,160	87,170	173,275	339,222	1,311,587	48,597	( <sup>3</sup> )	( <sup>3</sup> )	
201	Meat products.....	267	12,595	58,221	9,680	20,383	40,876	96,592	3,091	12,069	67,030	
202	Dairy products.....	425	13,813	65,294	7,673	15,595	31,459	140,566	7,493	( <sup>3</sup> )	( <sup>3</sup> )	
203	Canned and frozen foods.....	210	5,866	20,136	4,793	9,040	13,278	43,762	1,501	4,772	28,398	
204	Grain mill products.....	47	1,936	9,224	1,366	3,091	5,331	25,879	566	2,017	17,519	
205	Bakery products.....	653	38,251	156,870	24,254	48,173	89,801	265,836	8,436	33,404	201,062	
206	Sugar.....	4	3,782	16,522	2,902	5,546	11,862	28,957	2,792	3,671	22,008	
207	Candy and related products.....	181	13,903	47,561	11,410	22,200	34,045	115,087	2,228	14,227	96,491	
208	Beverages.....	265	24,808	134,761	13,324	24,628	68,247	305,948	13,517	21,638	178,465	
209	Miscellaneous foods.....	474	16,984	73,568	11,766	24,615	44,320	288,957	8,970	17,310	218,736	
21	Tobacco manufactures.....	105	3,384	9,524	2,996	5,478	7,750	31,188	585	5,353	29,878	
212	Cigars.....	92	1,881	4,509	1,698	2,973	3,606	7,132	74	3,596	10,768	
22	Textile mill products.....	2,123	71,858	270,334	61,859	121,851	202,659	452,677	15,067	87,506	451,732	
221	Woolen and worsted manufactures	47	6,875	25,284	5,574	10,708	18,798	29,981	870	14,152	62,646	
222	Yarn and thread mills.....	81	1,934	6,415	1,488	2,478	3,722	9,915	240	2,808	16,406	
223	Broad-woven fabrics.....	180	4,030	15,048	3,555	6,855	11,492	24,376	689	6,410	36,426	
224	Narrow fabric mills.....	159	3,280	11,674	2,832	5,615	8,511	17,588	561	3,834	19,485	
225	Knitting mills.....	953	24,471	82,580	21,524	39,630	61,312	154,629	6,164	19,497	99,576	
226	Finishing textiles except wool.	348	15,857	69,785	13,697	29,720	54,281	107,030	2,732	19,435	111,625	
227	Carpets and rugs.....	21	4,118	16,297	3,557	7,412	13,170	37,594	1,144	9,485	48,020	
228	Hats, except cloth & millinery.	99	1,981	6,608	1,756	3,324	4,959	10,434	110	3,518	16,828	
229	Miscellaneous textile goods....	235	9,308	36,640	7,872	16,104	26,411	61,127	2,555	8,367	40,720	
23	Apparel and related products	17,501	394,421	1,247,367	346,617	601,370	946,035	2,073,737	18,409	387,395	2,037,614	
231	Men's and boys' suits and coats	612	26,977	96,765	23,908	42,312	76,416	145,690	479	40,550	224,932	
232	Men's and boys' furnishings....	1,273	30,191	89,541	26,201	44,437	64,166	155,719	1,347	29,408	146,092	
233	Women's and misses' outerwear..	6,391	168,672	555,667	148,621	252,958	426,692	903,838	6,253	163,992	901,381	
234	Women's undergarments.....	1,064	39,210	112,547	34,063	59,748	80,093	206,966	2,724	37,757	185,434	
235	Millinery.....	654	12,809	45,107	11,517	21,047	36,632	70,557	310	13,328	71,444	
236	Children's outerwear.....	1,166	33,703	97,468	29,714	51,771	73,185	166,811	1,483	22,700	104,374	
237	Fur goods.....	1,747	9,019	39,652	7,221	12,572	31,491	68,513	363	14,267	112,385	
238	Miscellaneous apparel.....	1,013	24,098	66,757	21,446	36,747	50,208	113,600	1,015	21,190	95,251	
239	Fabricated textiles, n.e.c.....	3,581	49,739	143,863	43,922	79,776	107,149	242,043	4,433	44,203	196,321	
24	Lumber and wood products....	845	10,571	38,840	8,670	17,399	27,689	61,874	1,456	8,996	45,834	
242	Lumber and basic products.....	38	840	2,818	714	1,310	2,241	4,208	94	412	3,068	
243	Millwork and related products..	311	4,170	17,889	3,178	6,424	11,882	26,280	647	2,811	15,992	
244	Wooden containers.....	137	1,992	6,548	1,728	3,521	5,109	11,019	303	2,605	12,085	
249	Miscellaneous wood products....	352	3,554	11,536	3,037	6,119	8,420	20,156	403	3,168	14,689	
25	Furniture and fixtures.....	1,848	31,007	119,020	25,370	49,857	86,577	198,459	4,588	27,502	139,591	
251	Household furniture.....	1,123	19,570	73,494	16,124	30,978	53,435	123,387	2,730	16,996	85,174	
252	Office furniture.....	49	2,058	7,142	1,685	3,516	5,308	11,740	480	2,036	8,145	
253	Public and professional furn...	37	1,514	5,910	1,249	2,535	4,212	10,471	291	1,218	6,947	
254	Partitions and fixtures.....	378	5,464	24,199	4,512	9,214	18,627	39,173	801	4,717	27,453	
256	Screens, shades, and blinds....	221	1,867	6,300	1,342	2,695	3,536	10,828	235	1,800	8,087	
259	Furniture and fixtures, n.e.c....	40	532	1,973	456	917	1,457	2,857	48	735	3,785	
26	Pulp, paper and products....	964	50,117	210,032	40,564	83,687	146,928	374,489	19,671	42,740	272,369	
261	Pulp, paper and board.....	37	4,547	23,225	3,818	8,438	18,461	41,059	5,312	4,763	45,397	
264	Paper coating and glazing.....	65	2,810	13,142	2,067	4,398	7,940	31,036	966	1,837	13,521	
265	Envelopes.....	41	2,347	10,084	1,946	4,224	7,001	14,643	2,806	1,999	11,922	
266	Paper bags.....	87	3,087	12,303	2,391	4,925	7,394	22,263	1,107	1,935	12,253	
267	Paperboard containers.....	397	22,627	91,943	18,468	37,575	63,911	154,811	4,742	19,324	119,000	
269	Pulp, paper and products, nec..	337	14,696	59,332	11,873	24,127	42,219	110,676	4,737	12,882	70,276	
27	Printing and publishing.....	5,554	159,206	796,319	88,358	166,531	397,078	1,511,833	33,338	157,404	1,085,833	
271	Newspapers.....	341	28,466	155,819	14,592	25,216	76,742	254,723	4,659	27,585	178,930	
272	Periodicals.....	579	26,771	151,577	4,211	7,301	17,881	415,539	3,782	25,429	281,529	
273	Books.....	493	20,691	90,816	6,596	12,682	26,129	230,792	3,853	24,656	163,345	
274	Miscellaneous publishing.....	308	6,059	27,487	1,049	1,950	3,886	57,927	1,274	4,465	32,782	
275	Commercial printing.....	2,111	31,793	152,152	25,864	49,482	113,968	229,561	8,010	30,745	182,887	
276	Lithographing.....	538	13,685	73,662	10,637	20,847	51,611	112,710	6,419	11,619	74,846	
277	Greeting cards.....	108	5,353	19,095	4,005	7,501	11,911	33,495	548	4,772	20,930	
278	Bookbinding & related inds....	475	12,376	43,023	10,981	21,247	34,206	65,004	1,824	14,992	66,177	
279	Printing trade services.....	601	14,010	82,685	10,420	20,291	60,740	112,079	2,967	13,141	84,407	
28	Chemicals and products.....	1,766	102,183	478,699	66,189	134,599	264,173	1,390,154	65,089	102,086	951,221	
281	Inorganic chemicals.....	56	3,898	18,557	3,018	6,026	12,824	49,129	3,487	(D)	(D)	
282	Organic chemicals.....	143	21,877	110,169	14,960	29,768	66,227	251,816	17,865	24,520	173,549	
283	Drugs and medicines.....	291	27,734	128,477	17,485	36,850	69,239	411,565	16,783	22,681	209,406	
284	Soap and related products.....	267	12,063	59,811	6,592	12,913	26,922	174,424	7,694	11,401	135,078	
285	Paints and allied products.....	333	12,695	61,495	8,325	17,016	34,231	176,528	5,788	13,411	116,230	
287	Fertilizers.....	14	827	3,214	642	1,401	2,484	5,868	469	(D)	(D)	
288	Vegetable and animal oils.....	39	3,049	13,606	2,305	5,063	9,386	39,935	2,739	3,182	60,567	
289	Chemical products, n.e.c.....	613	19,952	82,967	12,794	25,423	42,666	279,986	10,090	21,145	208,972	

See footnotes at end of table.



## MANUFACTURES—AREA STATISTICS

Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Code	Industry group	Establish- ments, number	1954						1947		
			All employees		Production workers			Value added by manufacture	Capital expendi- tures, new	All employees, number	Value added by manufacture
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
29	Petroleum and coal products.	101	14,333	77,577	9,870	19,270	50,009	131,215	45,918	15,457	210,035
291	Petroleum refining.....	15	10,194	58,754	6,985	13,429	38,070	90,508	43,468	9,977	158,753
295	Paving and roofing materials...	46	2,468	10,996	1,825	3,754	7,524	24,120	1,756	2,703	18,382
30	Rubber products.....	147	11,365	46,738	9,018	17,511	33,150	78,542	2,786	14,204	66,992
309	Rubber industries, n.e.c.....	144	10,957	45,036	8,685	16,854	31,895	75,915	2,543	(D)	(D)
31	Leather and leather goods...	1,521	42,544	132,507	38,069	73,103	105,100	207,258	2,605	42,792	205,792
311	Leather tanning and finishing..	102	2,466	10,204	2,098	4,198	7,663	18,707	675	2,389	36,226
312	Industrial leather belting....	19	291	688	208	432	740	1,029	23	229	1,409
313	Footwear cut stock.....	58	1,023	2,993	872	1,719	2,262	4,796	77	1,394	5,881
314	Footwear except rubber.....	236	12,379	44,194	11,031	20,659	35,789	64,952	617	16,002	68,899
315	Leather gloves.....	19	225	507	213	362	463	733	5	558	1,837
316	Luggage.....	232	5,350	16,010	4,872	9,368	12,677	26,386	223	4,662	19,710
317	Purses & small leather goods...	677	18,366	50,736	16,633	32,308	40,097	78,351	876	14,242	58,423
319	Miscellaneous leather goods....	178	2,441	7,173	2,139	4,054	5,405	12,301	107	3,316	13,407
32	Stone, clay, & glass prod...	876	23,495	97,217	19,145	39,348	71,639	177,730	10,740	20,909	117,357
322	Pressed and blown glassware....	53	1,105	4,249	913	1,948	3,271	6,501	976	573	2,353
323	Products of purchased glass....	265	3,430	11,657	2,925	5,877	8,649	19,542	496	4,765	21,946
325	Structural clay products.....	19	1,077	4,409	897	1,899	3,450	6,448	981	1,097	4,381
326	Pottery and related products...	77	1,678	6,650	1,412	2,962	5,090	10,694	290	2,073	9,382
327	Concrete and plaster products..	197	4,718	20,419	3,702	8,087	14,671	46,640	1,732	3,617	22,881
328	Cut-stone and stone products...	83	1,257	5,855	1,021	2,069	4,415	10,073	321	824	4,875
329	Nonmetallic mineral prod., etc.	182	10,227	43,975	8,272	16,503	32,092	77,829	5,942	7,960	51,539
33	Primary metal industries....	508	38,515	175,006	31,339	63,800	129,286	310,550	20,701	38,160	226,590
332	Iron and steel foundries.....	56	4,842	20,885	4,080	7,899	15,539	28,657	763	6,121	26,917
334	Secondary nonferrous metals....	76	2,703	12,176	2,054	4,118	7,878	17,856	1,578	2,252	14,755
335	Nonferrous rolling and drawing.	36	6,291	29,731	5,070	10,605	20,895	71,796	4,986	7,666	61,608
336	Nonferrous foundries.....	196	5,715	24,924	4,888	10,126	19,502	36,259	2,284	5,025	22,259
339	Primary metal industries, nec..	129	12,163	57,619	9,754	19,901	42,599	99,249	8,815	9,977	64,407
34	Fabricated metal products...	3,752	99,351	422,238	81,590	165,731	303,796	725,915	30,466	82,960	434,283
341	Tin cans and other tinware....	37	7,314	33,618	6,474	13,239	28,307	56,372	7,091	6,568	30,000
342	Cutlery, tools, and hardware...	306	9,817	38,047	8,017	16,430	26,178	72,035	1,882	11,524	60,376
343	Heating & plumbing equipment...	176	6,328	28,519	5,012	9,697	19,586	47,710	1,101	6,654	35,695
344	Structural metal products.....	998	24,996	120,780	19,503	39,739	84,432	207,219	6,269	16,572	93,894
346	Metal stamping and coating.....	1,025	18,641	71,064	16,077	32,988	52,727	116,361	4,067	16,558	80,962
347	Lighting fixtures.....	448	9,952	36,935	8,088	16,267	25,435	66,709	1,403	8,114	47,065
348	Fabricated wire products.....	224	7,291	27,585	6,256	12,238	20,827	47,166	2,092	4,698	19,423
349	Metal products, n.e.c.....	538	15,010	65,689	12,159	25,132	46,303	112,339	6,557	12,272	66,868
35	Machinery, exc. electrical..	2,801	91,678	428,917	68,874	141,123	291,793	700,321	30,645	90,466	483,384
352	Tractors and farm machinery...	11	129	466	100	210	338	726	53	195	1,211
353	Construction & mining machinery	29	1,353	6,320	1,006	2,138	4,283	8,835	1,118	2,130	11,664
354	Metalworking machinery.....	736	11,603	55,006	8,966	19,062	38,291	84,572	4,934	11,845	58,176
355	Special-industry machinery, nec	465	20,259	97,853	14,932	29,852	63,919	156,728	4,303	26,217	146,175
356	General industrial machinery...	270	21,052	103,092	14,784	30,612	67,773	193,123	4,953	17,572	102,776
357	Office and store machines.....	74	5,771	24,774	4,218	8,323	15,807	38,154	929	5,841	32,827
358	Service and household machines.	159	11,877	54,200	9,152	18,345	38,306	76,671	2,218	13,456	62,424
359	Miscellaneous machinery parts..	1,050	19,581	87,068	15,673	32,497	62,966	141,141	12,131	13,152	67,733
36	Electrical machinery.....	1,318	131,616	544,877	100,018	196,991	359,570	955,289	35,473	119,291	505,600
361	Electrical industrial apparatus	424	38,165	158,791	29,668	58,835	109,280	271,316	7,639	29,201	137,692
362	Electrical appliances.....	64	2,590	7,454	2,237	4,302	5,526	15,690	1,368	(D)	(D)
363	Insulated wire and cable.....	40	3,443	15,705	2,846	5,811	11,763	34,380	1,606	5,967	34,748
366	Communication equipment.....	612	71,749	301,461	52,994	104,030	191,778	532,153	18,710	66,195	258,331
369	Electrical products, n.e.c.....	139	6,413	24,314	5,000	9,685	16,491	49,380	2,705	6,156	32,086
37	Transportation equipment....	460	109,987	558,108	82,869	169,904	384,774	1,011,416	19,365	80,741	388,416
371	Motor vehicles and equipment...	121	20,893	103,993	17,255	36,345	81,106	281,275	7,441	22,878	147,179
372	Aircraft and parts.....	155	76,390	396,674	54,950	113,740	259,977	646,629	7,838	23,977	101,102
373	Ships and boats.....	168	11,672	53,025	9,804	18,125	40,453	76,131	3,761	32,449	131,512
38	Instruments & related prod...	849	51,857	246,981	37,364	76,022	152,744	389,081	14,472	46,304	238,642
381	Scientific instruments.....	77	17,534	91,686	11,803	24,527	56,571	129,160	3,632	8,251	36,152
382	Mech. measuring instruments....	137	4,764	20,233	3,834	7,436	14,665	39,345	1,132	8,014	36,756
383	Optical instruments and lenses.	60	1,249	6,508	880	1,726	3,705	9,424	632	(D)	(D)
384	Medical equipment and supplies.	220	10,072	44,254	6,851	14,317	24,971	75,992	3,656	11,069	53,905
385	Ophthalmic goods.....	104	3,322	10,250	2,745	5,188	6,872	16,428	654	(D)	(D)
39	Miscellaneous manufactures <sup>4</sup> .	5,838	162,540	612,553	130,157	249,659	414,715	1,022,607	24,153	115,248	553,797
391	Jewelry and silverware.....	1,123	14,058	57,599	11,320	21,853	38,504	93,403	1,227	15,560	97,521
393	Musical instruments, n.e.c.....	48	1,662	6,111	1,443	2,630	4,754	8,930	80	2,421	12,962
394	Toys and sporting goods.....	772	26,017	70,655	23,230	41,725	54,452	129,881	4,573	15,305	67,348
395	Office supplies.....	221	8,499	31,919	6,404	12,675	19,632	50,576	1,939	9,106	45,525
396	Costume jewelry and notions....	1,409	26,761	76,470	23,332	44,115	56,715	128,628	3,107	25,703	102,699
397	Plastics products, n.e.c.....	608	15,412	55,501	12,832	25,595	37,643	97,271	5,746	9,149	40,314
398	Miscellaneous manufactures <sup>4</sup> ...	1,657	70,129	314,295	51,594	101,064	203,012	513,916	7,479	38,004	187,428

See footnotes at end of table.

Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Code	Industry group	Establish- ments, number	1954							1947	
			All employees		Production workers			Value added by manufacture	Capital expendi- tures, new	All employees, number	Value added by manufacture
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
PHILADELPHIA STANDARD METROPOLITAN AREA (Consists of Bucks, Chester, Delaware, Montgomery and Philadelphia Counties, Pennsylvania; Burlington, Camden and Gloucester Counties, New Jersey)											
	All industries, total <sup>1</sup> ...	8,079	547,042	2,291,639	419,932	827,015	1,564,348	4,023,700	275,789	<sup>2</sup> 531,809	<sup>2</sup> 2,772,649
20	Food and kindred products...	803	52,636	206,281	35,855	71,677	121,627	432,019	21,524	( <sup>3</sup> )	( <sup>3</sup> )
201	Meat products.....	123	6,226	24,330	4,643	9,591	16,660	36,969	1,620	5,076	21,703
202	Dairy products.....	126	8,732	37,134	3,821	7,515	13,169	75,951	3,413	( <sup>3</sup> )	( <sup>3</sup> )
203	Canned and frozen foods.....	72	8,681	31,277	7,322	14,496	23,999	85,789	4,080	8,191	55,206
204	Grain mill products.....	23	509	1,815	342	717	1,019	6,783	197	(D)	(D)
205	Bakery products.....	170	12,408	50,312	7,653	15,550	26,913	85,201	2,230	13,145	58,176
208	Beverages.....	82	5,343	24,399	3,273	6,699	13,377	57,412	5,158	5,956	45,217
209	Miscellaneous foods.....	123	3,034	10,602	2,443	5,092	7,211	23,963	1,443	2,862	19,036
21	Tobacco manufactures.....	24	6,345	16,299	5,949	11,248	14,134	32,486	316	8,905	31,429
22	Textile mill products.....	686	43,877	150,633	38,777	73,702	116,896	228,372	9,661	64,074	312,292
222	Yarn and thread mills.....	19	898	2,803	796	1,513	1,996	4,585	261	(D)	(D)
223	Broad-woven fabrics.....	44	2,779	10,983	2,439	4,938	8,452	15,757	404	3,298	17,655
224	Narrow fabric mills.....	39	1,778	5,613	1,573	3,100	4,232	8,157	111	2,549	9,716
225	Knitting mills.....	373	16,198	48,838	14,617	27,637	38,547	76,219	2,942	21,050	98,309
226	Finishing textiles except wool.	34	2,989	12,023	2,466	5,038	8,826	15,666	614	4,121	19,322
227	Carpets and rugs.....	49	7,466	28,710	6,460	12,280	22,634	47,547	3,401	10,211	67,232
229	Miscellaneous textile goods....	54	4,388	14,857	3,791	7,144	10,638	23,801	479	4,354	19,853
23	Apparel and related products	1,145	56,222	157,282	51,139	91,435	128,294	243,456	2,453	56,567	228,001
231	Men's and boys' suits and coats	171	17,000	55,185	15,537	27,250	45,618	78,467	501	18,497	83,970
232	Men's and boys' furnishings....	228	11,887	30,540	10,985	20,248	25,671	45,604	584	13,181	46,467
233	Women's and misses' outerwear..	300	12,505	32,557	11,472	19,912	27,019	53,489	572	12,398	49,915
234	Women's undergarments.....	36	1,719	3,514	1,604	2,605	2,931	5,699	75	1,435	4,944
236	Children's outerwear.....	111	6,567	17,115	5,874	10,907	13,830	29,192	295	5,154	19,413
238	Miscellaneous apparel.....	46	2,048	5,831	1,713	3,058	3,605	8,902	125	1,674	5,415
239	Fabricated textiles, n.e.c.....	217	3,803	10,407	3,332	6,342	7,877	18,574	273	3,755	15,364
24	Lumber and wood products....	199	3,141	11,433	2,580	5,330	8,544	16,900	962	3,581	14,962
242	Lumber and basic products.....	41	230	595	204	409	472	1,046	75	(D)	(D)
243	Millwork and related products..	78	1,595	6,409	1,231	2,509	4,630	8,964	272	1,531	6,034
244	Wooden containers.....	32	740	2,329	656	1,396	1,875	3,036	381	1,247	4,474
249	Miscellaneous wood products....	40	557	2,055	472	982	1,526	3,693	220	621	3,636
25	Furniture and fixtures.....	321	7,324	26,236	6,187	11,964	19,772	40,158	1,107	5,837	24,741
251	Household furniture.....	199	4,346	14,175	3,754	7,253	10,829	21,846	778	3,323	13,699
252	Office furniture.....	9	641	2,482	567	1,133	2,009	3,725	117	352	2,167
253	Public & professional furniture	12	327	1,501	277	568	1,166	2,093	(D)	384	1,577
254	Partitions and fixtures.....	59	1,386	5,954	1,100	2,057	4,341	8,325	91	1,165	4,925
256	Screens, shades and blinds.....	30	416	1,261	315	612	830	1,767	44	500	2,021
259	Furniture and fixtures, n.e.c....	12	206	862	172	338	595	2,399	(D)	113	352
26	Pulp, paper and products....	250	19,416	83,143	15,716	32,728	60,027	177,053	9,131	19,320	126,057
261	Pulp, paper and board.....	28	5,450	27,775	4,376	9,828	20,703	57,421	4,039	5,796	44,682
264	Paper coating and glazing.....	17	855	3,368	681	1,263	2,448	23,021	537	658	3,638
267	Paperboard containers.....	108	7,606	28,653	6,250	12,795	20,596	50,722	2,794	6,867	46,258
269	Pulp, paper and products, nec..	70	3,826	16,433	3,043	6,161	11,556	33,952	1,360	3,951	22,055
27	Printing and publishing.....	919	35,099	163,471	22,762	44,324	100,833	296,827	10,870	32,470	203,299
271	Newspapers.....	114	7,925	36,493	3,988	7,652	19,134	59,540	3,029	6,774	36,481
272	Periodicals.....	50	6,776	35,426	2,836	5,542	14,587	99,826	2,218	7,911	78,362
273	Books.....	53	2,048	8,493	1,140	2,287	3,982	19,403	189	2,436	14,187
275	Commercial printing.....	407	9,658	43,067	7,991	15,526	34,428	60,856	3,333	7,161	34,536
276	Lithographing.....	99	3,141	15,540	2,426	4,707	10,432	23,316	1,211	2,321	12,755
278	Bookbinding & related inds.....	68	1,741	5,664	1,533	3,070	4,409	8,616	237	1,739	6,404
279	Printing trade services.....	97	3,257	17,009	2,567	4,992	13,063	22,053	515	3,613	18,500
28	Chemicals and products.....	406	29,106	134,961	17,753	35,404	69,832	356,757	39,360	27,662	218,146
281	Inorganic chemicals.....	18	1,223	5,283	871	1,677	3,298	16,770	1,981	(D)	(D)
282	Organic chemicals.....	25	10,393	51,922	6,292	12,956	28,726	124,190	21,548	9,742	59,348
283	Drugs and medicines.....	66	6,269	28,743	3,336	6,340	11,710	101,365	2,750	4,533	55,863
284	Soap and related products.....	69	2,137	9,434	1,472	2,793	4,899	22,786	998	2,621	25,322
285	Paints and allied products.....	68	4,041	18,299	2,630	5,274	10,340	46,036	2,226	3,531	26,304
288	Vegetable and animal oils.....	18	699	2,747	468	999	1,603	5,586	459	836	7,298
289	Chemical products, n.e.c.....	134	3,767	16,271	2,258	4,453	7,753	36,897	7,935	4,317	27,629
29	Petroleum and coal products.	39	18,345	97,493	14,019	27,527	69,708	186,220	67,128	16,947	140,474
291	Petroleum refining.....	7	15,148	81,897	11,852	23,172	60,360	153,902	65,710	14,315	122,996
293	Coke and byproducts.....	3	972	4,389	743	1,463	3,111	10,159	(D)	(D)	(D)
295	Paving and roofing materials...	14	491	2,168	362	762	1,524	5,298	324	(D)	(D)
299	Petroleum and coal products,nec	15	1,733	9,038	1,061	2,129	4,712	16,860	(D)	700	6,146
30	Rubber products.....	57	8,541	38,676	7,017	13,933	29,946	94,204	10,693	8,827	53,376
301	Tires and inner tubes.....	3	4,454	22,247	3,838	7,728	18,656	65,131	9,244	5,248	39,188

See footnotes at end of table.



## MANUFACTURES—AREA STATISTICS

Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Code	Industry group	Establishments, number	1954						1947			
			All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)	
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
31	Leather and leather goods...	138	7,852	25,451	6,946	13,015	20,348	37,510	642	10,631	50,603	
311	Leather tanning and finishing..	27	3,507	13,209	3,117	6,088	10,535	17,873	405	4,811	27,596	
313	Footwear cut stock.....	6	200	523	173	316	424	815	12	558	1,393	
314	Footwear, except rubber.....	26	2,319	7,209	1,996	3,811	5,705	11,100	98	2,577	9,109	
316	Luggage.....	38	493	1,491	450	914	1,312	2,628	32	941	5,086	
317	Purses and small leather goods.	19	945	1,777	889	1,311	1,505	2,791	44	1,187	4,177	
32	Stone, clay, & glass prod...	256	10,775	47,474	8,544	17,573	32,658	88,067	5,520	10,848	55,962	
322	Pressed and blown glassware....	12	295	1,306	274	610	1,133	2,186	217	(D)	(D)	
323	Products of purchased glass....	33	811	3,112	637	1,177	1,983	6,069	171	1,212	5,192	
325	Structural clay products.....	19	1,824	7,636	1,580	3,442	5,882	14,179	1,220	1,398	6,862	
326	Pottery and related products...	15	434	1,836	368	775	1,490	3,125	80	507	2,682	
327	Concrete and plaster products..	83	1,824	7,239	1,418	3,110	5,254	15,034	1,414	1,450	7,509	
328	Cut-stone and stone products...	20	442	2,628	341	685	1,262	4,951	36	(D)	(D)	
329	Nonmetallic mineral prod., nec.	74	5,142	23,716	3,924	7,774	15,651	42,520	2,379	5,315	29,108	
33	Primary metal industries....	177	32,724	155,611	26,408	52,816	114,401	236,054	30,701	28,012	131,607	
331	Blast furnaces and steel mills.	12	16,952	83,093	13,130	26,179	59,781	115,623	25,602	10,962	50,788	
332	Iron and steel foundries.....	42	6,464	28,517	5,428	10,657	21,760	45,596	1,940	7,406	32,664	
334	Secondary nonferrous metals....	16	970	4,080	795	1,521	2,627	8,124	286	1,341	7,629	
335	Nonferrous rolling and drawing.	9	704	2,869	629	1,301	2,360	4,179	143	1,688	7,793	
336	Nonferrous foundries.....	53	3,097	15,421	2,673	5,419	12,146	22,054	815	2,818	14,493	
339	Primary metal industries, nec..	45	4,535	21,629	3,751	7,736	15,725	40,475	1,914	3,484	17,726	
34	Fabricated metal products...	887	47,315	206,598	38,286	77,444	153,249	337,680	12,768	47,690	224,630	
341	Tin cans and other tinware....	7	3,210	13,237	2,857	5,819	11,349	28,198	892	2,918	13,794	
342	Cutlery, tools, and hardware...	61	3,939	15,677	3,139	6,143	11,504	25,136	865	4,732	19,360	
343	Heating and plumbing equipment.	50	3,432	14,759	2,591	5,141	9,970	29,526	1,495	4,394	22,967	
344	Structural metal products.....	331	14,779	66,530	11,798	24,396	48,712	108,504	5,270	10,947	50,007	
346	Metal stamping and coating....	156	10,408	53,218	8,209	16,493	39,003	73,170	1,865	15,960	77,595	
347	Lighting fixtures.....	88	3,156	10,755	2,682	5,408	7,738	19,880	337	2,475	12,670	
348	Fabricated wire products.....	64	2,720	10,344	2,402	4,749	8,374	15,616	376	1,873	7,147	
349	Metal products, n.e.c.....	130	5,668	22,077	4,605	9,291	16,596	37,648	1,664	4,391	21,090	
35	Machinery, exc. electrical..	845	46,494	220,545	33,671	68,588	143,810	348,013	18,766	46,837	222,674	
351	Engines and turbines.....	4	9,871	53,083	6,985	14,607	37,013	82,301	(D)	(D)	(D)	
352	Farm machinery (exc. tractors).	14	513	2,133	390	854	1,471	4,095	105	1,315	7,230	
353	Construction & mining machinery	7	562	2,277	349	688	1,300	2,710	301	(D)	(D)	
354	Metalworking machinery.....	199	2,645	13,792	2,215	4,713	10,434	21,944	1,156	(D)	(D)	
355	Special-industry machinery, nec	132	8,137	38,234	5,930	11,999	24,310	56,085	2,479	10,696	56,887	
356	General industrial machinery...	88	10,169	46,461	6,463	12,881	25,078	78,362	2,986	10,129	52,836	
357	Office and store machines.....	19	1,296	5,635	1,113	2,508	4,381	8,315	176	246	960	
358	Service and household machines.	39	1,858	7,597	1,363	2,651	4,654	13,098	578	4,414	10,651	
359	Miscellaneous machinery parts..	343	11,641	51,331	8,859	17,683	35,165	81,099	(D)	11,330	54,014	
36	Electrical machinery.....	191	49,944	219,582	34,466	68,172	134,349	387,143	14,289	38,540	203,468	
361	Electrical industrial apparatus	71	13,611	63,913	8,951	17,768	38,377	130,739	4,705	9,431	59,811	
362	Electrical appliances.....	8	1,038	4,003	689	1,530	2,503	3,891	282	1,692	9,477	
366	Communication equipment.....	86	32,269	138,422	22,598	44,956	84,792	237,194	8,343	22,912	116,227	
369	Electrical products, n.e.c.....	14	2,159	10,460	1,504	2,507	6,656	11,618	861	3,488	13,430	
37	Transportation equipment....	101	42,516	214,278	32,095	67,071	151,587	297,369	14,208	33,487	152,454	
371	Motor vehicles and equipment...	37	4,545	23,004	3,692	8,025	17,844	42,718	3,179	12,194	68,798	
372	Aircraft and parts.....	36	20,244	103,690	13,490	29,452	64,778	150,846	1,683	(D)	(D)	
38	Instruments & related prod..	142	12,861	56,030	8,143	15,967	31,148	85,772	2,172	10,508	46,999	
382	Mech. measuring instruments....	35	9,616	44,325	5,623	10,933	23,415	67,509	1,689	6,413	31,960	
384	Medical equipment and supplies.	57	1,918	6,807	1,504	2,928	4,344	10,553	278	2,775	10,851	
386	Photographic goods.....	14	270	1,020	165	339	570	1,273	45	117	380	
39	Miscellaneous manufactures <sup>4</sup> .	493	16,498	60,154	13,608	28,087	43,175	101,627	3,509	14,705	67,318	
391	Jewelry and silverware.....	52	445	1,572	366	700	1,155	2,691	44	(D)	(D)	
393	Musical instruments and parts..	4	379	1,827	336	701	1,428	2,548	44	617	3,652	
394	Toys and sporting goods.....	71	2,842	8,816	2,427	4,673	6,662	16,094	714	2,033	7,584	
395	Office supplies.....	29	1,506	6,216	1,007	2,072	3,532	12,493	205	1,938	8,564	
396	Costume jewelry and notions....	29	735	2,028	646	1,297	1,569	3,932	63	(D)	(D)	
397	Plastics products, n.e.c.....	76	3,978	16,141	3,280	6,710	12,055	26,676	1,751	3,110	16,910	
398	Miscellaneous manufactures <sup>4</sup> ....	232	6,611	23,553	5,543	10,931	16,771	37,191	685	5,205	23,731	
TRENTON STANDARD METROPOLITAN AREA (Consists of Mercer County, New Jersey)												
All industries, total <sup>1</sup> ...			443	38,289	157,238	30,069	58,629	112,465	302,999	14,903	240,422	2208,485
20	Food and kindred products...	75	1,315	5,044	909	1,858	3,118	9,030	455	( <sup>3</sup> )	( <sup>3</sup> )	
201	Meat products.....	12	239	1,128	172	368	724	2,085	38	215	1,667	
202	Dairy products.....	23	264	962	168	313	521	1,621	153	( <sup>3</sup> )	( <sup>3</sup> )	
203	Canned and frozen foods.....	5	187	503	173	356	439	942	33	(D)	(D)	
205	Bakery products.....	19	268	846	175	376	542	1,279	110	442	1,541	
208	Beverages.....	8	316	1,476	186	374	786	2,936	98	205	1,043	
21	Tobacco manufactures.....	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	997	(D)	

See footnotes at end of table.



Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Code	Industry group	Establish- ments, number	1954							1947	
			All employees		Production workers			Value added by manufacture	Capital expendi- tures, new	All employees, number	Value added by manufacture
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)		
22	Textile mill products.....	15	2,321	8,783	1,943	3,669	6,808	13,915	1,432	2,467	14,750
227	Carpets and rugs.....	3	1,282	4,855	1,025	1,908	3,657	8,403	1,367	1,301	9,633
229	Miscellaneous textile goods....	4	277	1,275	229	492	986	1,932	24	(D)	(D)
23	Apparel and related products	26	1,488	3,719	1,296	2,171	2,945	4,585	32	1,599	5,420
231	Men's and boys' suits and coats	5	356	891	329	508	743	433	4	(D)	(D)
232	Men's and boys' furnishings....	7	794	2,093	655	1,156	1,558	3,160	13	917	3,087
233	Women's and misses' outerwear..	7	190	409	184	277	380	530	6	109	309
24	Lumber and wood products....	12	156	446	128	209	353	789	14	337	1,289
25	Furniture and fixtures.....	11	270	883	225	405	751	2,547	8	166	486
251	Household furniture.....	6	251	825	210	376	711	2,442	5	(D)	(D)
26	Pulp, paper and products....	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	417	2,429
267	Paperboard containers.....	6	424	1,777	352	712	1,278	2,768	159	(D)	(D)
27	Printing and publishing.....	50	925	4,007	483	920	2,252	6,948	248	685	4,129
271	Newspapers.....	6	405	1,852	177	349	1,018	3,872	50	(D)	(D)
275	Commercial printing.....	23	276	1,301	211	396	846	1,862	95	298	1,321
28	Chemicals and products.....	15	1,507	6,127	1,090	2,333	4,016	31,544	638	1,147	20,467
285	Paints and allied products....	5	277	1,115	202	416	768	2,769	2	(D)	(D)
30	Rubber products.....	14	3,812	15,421	2,887	5,820	10,733	25,353	765	5,223	25,788
31	Leather and leather goods...	6	587	2,228	463	857	1,457	3,861	14	401	(D)
32	Stone, clay, & glass prod...	47	5,228	20,992	4,188	8,048	15,349	35,270	787	5,186	22,020
326	Pottery and related products...	28	4,041	15,955	3,382	6,393	12,448	26,137	480	4,596	19,424
327	Concrete and plaster products..	8	328	1,738	192	443	770	3,002	135	306	1,344
33	Primary metal industries....	12	1,876	9,034	1,460	2,839	6,470	15,218	729	2,327	11,700
34	Fabricated metal products...	50	7,930	35,344	6,666	13,359	27,765	72,709	6,418	6,800	37,070
343	Heating and plumbing equipment.	6	775	3,054	587	1,065	2,048	4,431	1,366	(D)	(D)
344	Structural metal products.....	18	1,110	5,116	888	1,818	3,783	10,336	619	758	4,394
346	Metal stamping and coating....	11	141	408	124	251	348	880	20	(D)	(D)
35	Machinery, exc. electrical..	52	4,242	19,039	2,900	5,805	11,668	31,654	1,366	5,184	16,667
359	Miscellaneous machinery parts..	26	540	2,328	444	901	1,725	4,038	(D)	604	1,977
36	Electrical machinery.....	16	2,642	10,381	2,146	4,221	7,595	24,183	1,026	3,473	22,824
361	Electrical industrial apparatus	10	969	3,479	807	1,568	2,414	6,300	286	(D)	(D)
37	Transportation equipment....	5	650	2,839	542	1,046	2,063	3,216	112	(D)	(D)
38	Instruments & related prod..	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
39	Miscellaneous manufactures <sup>4</sup> ..	25	1,655	6,778	1,309	2,340	4,535	12,185	270	2,324	9,633
394	Toys and sporting goods.....	6	513	1,668	435	786	1,117	2,390	110	(D)	(D)
397	Plastics products, n.e.c.....	7	983	4,495	741	1,329	3,043	8,988	158	(D)	(D)
398	Miscellaneous manufactures <sup>4</sup> ....	9	111	481	91	150	280	544	2	(D)	(D)
<p>"All manufacturing" totals for the Wilmington Standard Metropolitan Area (which includes Salem County in New Jersey) appear in Table 3. Industry group statistics for this area are shown in the 1954 Census of Manufactures report for the State of Delaware.</p>											

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industry groups (3-digit) are not shown. Industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "All industries" line.

<sup>2</sup>The 1954 and 1947 "All industries" totals are not strictly comparable because of differences in scope between the two years in Major Group 20 (see footnote 3).

Footnotes continued on next page

## MANUFACTURES—AREA STATISTICS

Footnotes for Table 5—Continued.

<sup>3</sup>Comparable data for Major Group 20 are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude plants processing and distributing fluid milk which in 1954 were classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
20	Food and kindred products except Subgroup 202, Dairy Products: New York-Northeastern New Jersey Standard Metropolitan Area.....	118,128	1,171,021	109,108	829,709
	Philadelphia Standard Metropolitan Area.....	43,904	356,068	44,657	253,178
	Trenton Standard Metropolitan Area.....	1,315	9,030	1,350	7,500

<sup>4</sup>Includes privately owned and /or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)

Table 6.—GENERAL STATISTICS FOR PRINCIPAL INDUSTRIAL COUNTIES, BY MAJOR INDUSTRY GROUP: 1954 AND 1947

(Principal industrial counties include all counties with 20,000 or more manufacturing employees. For explanation of column captions see Introduction)

Code	Major industry group	1954								1947	
		Establish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendit- ures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
		BERGEN COUNTY									
	All industries, total <sup>1</sup> .....	1,499	82,818	367,934	60,495	121,098	235,112	654,901	20,224	<sup>2</sup> 52,508	<sup>2</sup> 325,495
20	Food and kindred products.....	113	2,419	9,605	1,777	3,520	6,392	30,728	1,011	1,295	23,645
22	Textile mill products.....	85	6,753	27,129	5,785	11,799	20,203	33,494	1,019	8,866	43,388
23	Apparel and related products...	279	5,828	15,767	5,443	8,767	13,466	21,898	766	4,831	16,401
24	Lumber and wood products.....	33	437	1,806	350	697	1,160	2,614	186	186	766
25	Furniture and fixtures.....	53	782	3,101	649	1,368	2,242	4,446	89	263	1,098
26	Pulp, paper and products.....	38	4,266	20,789	3,338	7,216	14,348	35,501	3,951	3,269	24,805
27	Printing and publishing.....	145	2,592	11,294	1,674	3,217	7,004	18,831	863	971	5,422
28	Chemicals and products.....	101	4,420	21,102	3,154	6,365	12,812	74,548	2,063	3,875	54,850
31	Leather and leather goods.....	17	1,137	3,628	1,048	2,061	2,899	5,077	55	535	1,877
32	Stone, clay, & glass products..	39	1,198	5,043	865	1,851	3,309	8,403	396	832	5,158
33	Primary metal industries.....	24	2,723	12,159	2,114	4,150	8,653	21,402	1,545	3,141	12,935
34	Fabricated metal products.....	154	3,823	16,995	3,024	6,145	11,382	28,078	2,096	2,689	11,648
35	Machinery, except electrical...	201	3,872	18,970	2,790	5,781	12,112	31,047	1,072	2,079	13,044
36	Electrical machinery.....	60	4,643	19,873	3,230	6,314	10,825	39,387	1,023	559	2,520
37	Transportation equipment.....	15	23,945	117,764	15,404	31,514	68,270	206,109	1,497	9,881	(D)
38	Instruments & related products.	38	10,463	50,555	7,010	14,819	31,289	74,104	1,782	6,236	25,571
39	Miscellaneous manufactures <sup>3</sup> ....	92	2,590	8,581	2,198	4,237	6,292	13,600	549	1,792	8,509
		CAMDEN COUNTY									
	All industries, total <sup>1</sup> .....	507	46,283	203,115	36,845	72,070	142,038	368,045	13,922	<sup>2</sup> 43,971	<sup>2</sup> 227,648
20	Food and kindred products.....	68	7,802	31,743	5,979	11,741	22,159	80,432	3,563	7,140	51,567
22	Textile mill products.....	24	426	1,270	376	691	1,022	2,300	60	1,876	7,571
23	Apparel and related products...	43	1,735	4,635	1,602	2,748	3,816	6,817	58	1,492	4,567
24	Lumber and wood products.....	13	197	845	173	365	645	1,558	135	345	1,982
25	Furniture and fixtures.....	6	186	778	125	248	455	1,243	21	(D)	(D)
26	Pulp, paper and products.....	11	1,659	6,665	1,440	2,887	5,395	13,810	642	2,352	21,574
27	Printing and publishing.....	55	1,183	4,702	829	1,546	2,994	8,969	710	775	3,507
28	Chemicals and products.....	25	1,592	6,409	1,169	2,363	4,226	20,680	978	2,626	16,499
31	Leather and leather goods.....	8	895	3,207	771	1,450	2,516	4,541	(D)	1,115	7,348
32	Stone, clay, & glass products..	26	904	3,976	752	1,609	3,026	6,747	913	903	3,299
33	Primary metal industries.....	9	693	3,027	568	1,070	2,240	4,539	387	873	(D)
34	Fabricated metal products.....	85	2,844	12,232	2,283	4,420	8,808	31,603	1,277	1,423	9,225
35	Machinery, except electrical...	66	1,320	6,543	1,038	2,177	4,595	10,757	618	1,171	(D)
37	Transportation equipment.....	8	7,516	35,642	6,858	13,420	30,952	40,271	115	4,188	(D)
38	Instruments & related products.	7	124	523	82	167	293	734	21	59	167
39	Miscellaneous manufactures <sup>3</sup> ....	30	1,383	6,048	954	1,965	3,473	11,565	176	1,842	8,135
		ESSEX COUNTY									
	All industries, total <sup>1</sup> .....	2,817	143,101	611,593	105,778	208,076	390,195	1,067,606	51,334	<sup>2</sup> 142,892	<sup>2</sup> 798,016
20	Food and kindred products.....	215	20,247	100,002	11,554	23,141	52,771	193,816	10,636	15,379	108,389
22	Textile mill products.....	75	3,517	14,467	2,974	6,301	10,602	22,234	998	4,649	24,682
23	Apparel and related products...	311	9,425	25,374	8,692	14,716	21,194	35,720	454	10,055	35,416
24	Lumber and wood products.....	51	901	3,411	757	1,583	2,728	5,036	101	617	(D)
25	Furniture and fixtures.....	96	1,139	4,314	921	1,864	3,111	7,217	70	942	4,454
26	Pulp, paper and products.....	71	3,521	14,982	2,782	5,712	10,023	25,195	1,172	2,963	15,284
27	Printing and publishing.....	285	5,028	22,753	3,156	5,914	13,674	39,484	1,324	4,812	28,878
28	Chemicals and products.....	207	11,367	54,776	6,825	14,603	28,688	138,762	10,521	14,342	138,628
29	Petroleum and coal products....	13	434	2,070	279	592	1,111	5,088	187	294	3,914
31	Leather and leather goods.....	79	3,582	12,438	3,234	6,298	10,184	21,251	530	3,488	21,901
32	Stone, clay, & glass products..	43	791	3,481	617	1,299	2,250	5,132	150	1,106	7,343
33	Primary metal industries.....	82	4,798	22,439	3,798	7,913	14,517	40,785	4,659	4,991	26,494
34	Fabricated metal products.....	382	10,244	44,312	8,435	17,524	31,312	78,441	2,761	10,634	55,306
35	Machinery, except electrical...	328	14,375	65,529	10,233	20,509	41,358	99,528	5,149	14,225	66,755
36	Electrical machinery.....	171	27,527	113,749	21,673	42,756	78,802	187,176	7,470	27,754	121,860
37	Transportation equipment.....	30	5,816	26,740	4,065	7,210	15,400	38,029	893	5,244	29,635
38	Instruments & related products.	53	3,665	15,335	2,775	5,445	9,963	22,997	610	2,484	10,936
39	Miscellaneous manufactures <sup>3</sup> ....	305	15,761	62,110	12,188	23,062	40,357	96,256	3,416	17,379	89,936

See footnotes at end of table.



## MANUFACTURES—AREA STATISTICS

Table 6.—GENERAL STATISTICS FOR PRINCIPAL INDUSTRIAL COUNTIES, BY MAJOR INDUSTRY GROUP: 1954 AND 1947--Continued  
 (Principal industrial counties include all counties with 20,000 or more manufacturing employees. For explanation of column captions see Introduction)

Code	Major industry group	1954							1947		
		Establish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendit- ures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
HUDSON COUNTY											
	All industries, total <sup>1</sup> .....	2,363	133,063	569,410	100,902	195,838	380,317	1,119,182	41,723	<sup>2</sup> 144,039	<sup>2</sup> 889,898
20	Food and kindred products.....	159	10,882	46,966	7,811	15,676	29,930	181,635	3,632	8,858	82,710
22	Textile mill products.....	134	5,515	20,484	4,870	9,575	16,103	35,525	1,445	6,244	32,031
23	Apparel and related products...	985	18,928	58,471	16,932	30,997	46,369	98,283	1,612	14,107	68,549
24	Lumber and wood products.....	31	486	2,011	395	801	1,348	3,302	56	603	(D)
25	Furniture and fixtures.....	61	1,753	5,987	1,442	2,908	4,301	10,197	134	1,692	8,913
26	Pulp, paper and products.....	62	6,413	27,298	5,163	10,530	19,401	49,426	1,456	4,732	28,002
27	Printing and publishing.....	98	4,740	24,357	3,622	6,612	19,046	35,254	1,368	3,853	24,007
28	Chemicals and products.....	156	12,894	63,925	7,578	14,731	31,486	149,708	8,744	14,063	134,952
29	Petroleum and coal products....	13	4,557	25,413	3,200	5,901	16,560	43,102	4,228	5,821	113,339
30	Rubber products.....	11	375	1,348	300	767	1,029	1,766	104	206	762
31	Leather and leather products...	34	1,750	5,512	1,588	2,986	4,370	7,530	190	1,548	7,069
32	Stone, clay, & glass products...	36	2,617	10,071	2,159	4,208	7,727	13,834	1,437	1,120	6,553
33	Primary metal industries.....	43	4,357	20,693	3,262	6,354	13,605	37,816	1,865	4,723	25,428
34	Fabricated metal products.....	153	8,200	37,091	6,811	14,155	28,514	62,097	2,231	9,938	48,679
35	Machinery, except electrical...	141	13,493	66,539	9,599	19,881	44,518	125,916	4,773	14,099	78,996
36	Electrical machinery.....	63	24,271	106,822	16,423	31,662	62,630	182,252	6,799	27,288	115,091
38	Instruments & related products...	20	1,235	5,029	934	1,837	3,493	6,979	131	2,170	8,750
39	Miscellaneous manufactures <sup>3</sup> ....	139	6,854	25,303	5,643	10,490	17,601	40,088	968	8,676	41,351
Mercer County is coextensive with the Trenton Standard Metropolitan Area. Data for this area are shown in Table 5.											
MIDDLESEX COUNTY											
	All industries, total.....	651	65,529	284,183	51,462	102,226	199,495	608,462	43,165	<sup>2</sup> 59,614	<sup>2</sup> 334,239
20	Food and kindred products.....	67	1,346	5,502	895	1,753	3,056	14,319	732	1,013	6,856
21	Tobacco manufactures.....	3	938	2,431	843	1,402	1,907	7,505	(D)	1,385	7,508
22	Textile mill products.....	12	962	4,499	759	1,544	2,936	8,619	237	821	5,566
23	Apparel and related products...	141	7,318	18,750	6,987	11,813	16,725	24,534	351	6,883	21,514
24	Lumber and wood products.....	16	706	2,418	570	1,092	1,699	3,667	67	480	3,623
25	Furniture and fixtures.....	16	840	3,351	631	1,348	2,278	4,878	219	521	(D)
26	Pulp and paper products.....	21	2,009	9,147	1,463	3,135	6,001	21,249	3,406	1,783	13,344
27	Printing and publishing.....	38	2,373	12,773	1,897	3,944	10,036	17,016	847	1,869	8,291
28	Chemicals and products.....	68	14,346	69,820	10,144	21,014	45,269	199,145	11,229	14,056	101,653
29	Petroleum and coal products....	9	1,499	7,967	1,212	2,509	6,094	21,435	6,120	1,160	11,223
30	Rubber products.....	7	735	2,887	603	1,056	2,027	5,239	410	210	905
31	Leather and leather goods.....	16	1,044	2,886	970	1,857	2,193	4,336	(D)	1,128	4,052
32	Stone, clay, & glass products...	41	3,213	14,015	2,544	5,339	10,347	23,601	1,218	3,063	16,227
33	Primary metal industries.....	25	7,422	32,633	6,134	12,445	25,397	54,996	2,791	6,830	39,872
34	Fabricated metal products.....	58	1,929	9,174	1,566	3,270	6,854	25,208	954	928	5,006
35	Machinery, except electrical...	47	3,022	13,984	2,269	4,652	9,549	21,438	801	4,277	18,970
36	Electrical machinery.....	17	6,142	23,354	5,307	10,460	18,801	45,011	4,833	3,199	14,962
37	Transportation equipment.....	13	2,549	12,987	2,153	4,539	10,351	48,881	3,011	2,969	(D)
38	Instruments & related products...	10	5,650	30,413	3,190	6,465	13,887	47,638	5,434	5,210	(D)
39	Miscellaneous manufactures <sup>3</sup> ....	26	1,478	5,186	1,319	2,581	4,078	9,639	209	1,829	6,790
PASSAIC COUNTY											
	All industries, total <sup>1</sup> .....	1,457	72,310	295,596	58,531	114,066	216,379	507,788	19,500	<sup>2</sup> 78,521	<sup>2</sup> 376,137
20	Food and kindred products.....	103	3,427	12,368	2,368	3,526	7,532	25,352	823	2,721	14,034
22	Textile mill products.....	312	18,135	71,398	15,654	31,805	56,731	109,630	3,239	26,751	135,496
23	Apparel and related products...	235	9,779	28,082	8,962	15,415	24,295	37,163	551	9,506	33,143
24	Lumber and wood products.....	32	335	1,238	285	566	846	1,610	42	224	1,113
25	Furniture and fixtures.....	38	782	2,888	644	1,231	2,173	5,245	61	613	3,055
26	Pulp, paper and products.....	40	1,747	7,258	1,406	2,772	5,044	12,379	560	1,285	11,002
27	Printing and publishing.....	102	2,439	11,844	1,817	3,668	8,150	16,970	1,309	2,974	14,646
28	Chemicals and products.....	78	4,663	22,252	3,101	6,190	12,321	57,201	3,838	3,978	28,694
30	Rubber products.....	14	5,460	24,580	4,307	8,343	17,643	38,318	896	7,344	35,499
31	Leather and leather goods.....	13	530	1,643	494	839	1,378	2,331	24	762	2,637
32	Stone, clay, & glass products...	34	1,161	5,417	937	1,867	3,853	9,556	356	1,056	6,825
33	Primary metal industries.....	24	2,216	10,069	1,940	3,819	8,367	15,698	549	2,229	15,950
34	Fabricated metal products.....	116	4,170	18,688	3,503	7,109	14,369	29,911	1,671	2,249	9,528
35	Machinery, except electrical...	166	4,453	21,284	3,203	6,541	13,439	32,667	1,375	4,484	26,627
36	Electrical machinery.....	42	7,276	31,478	5,184	10,918	21,716	74,542	1,644	9,282	21,542
37	Transportation equipment.....	10	1,165	5,299	967	2,021	3,979	8,129	417	755	(D)
39	Miscellaneous manufactures <sup>3</sup> ....	81	2,737	10,110	2,257	4,472	7,027	15,342	762	2,043	10,235

See footnotes at end of table.

Table 6.--GENERAL STATISTICS FOR PRINCIPAL INDUSTRIAL COUNTIES, BY MAJOR INDUSTRY GROUP: 1954 AND 1947--Continued  
(Principal industrial counties include all counties with 20,000 or more manufacturing employees. For explanation of column captions see Introduction)

Code	Major industry group	1954								1947	
		Establish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendit- ures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
		UNION COUNTY									
	All industries, total <sup>1</sup> .....	1,086	81,174	370,880	61,639	123,360	255,582	736,896	68,957	<sup>2</sup> 67,033	<sup>2</sup> 437,098
20	Food and kindred products.....	73	3,349	12,976	2,490	4,969	8,909	30,666	2,379	1,731	12,345
22	Textile mill products.....	15	1,245	4,646	1,109	2,125	3,788	8,066	315	1,350	7,888
23	Apparel and related products...	100	5,177	13,343	4,865	8,216	11,618	18,342	194	4,180	11,797
24	Lumber and wood products.....	33	304	1,121	246	497	795	1,915	79	440	2,279
25	Furniture and fixtures.....	38	2,023	8,833	1,559	2,776	6,656	16,372	205	2,447	(D)
26	Pulp, paper and products.....	27	1,671	8,236	1,352	3,020	6,328	15,228	557	1,332	9,113
27	Printing and publishing.....	78	2,567	11,012	1,920	3,759	7,677	17,157	1,119	2,305	11,299
28	Chemicals and products.....	84	11,740	57,854	7,416	14,782	31,937	197,612	11,593	10,899	108,594
30	Rubber products.....	4	134	480	118	200	374	871	136	273	(D)
31	Leather and leather goods.....	12	697	1,535	641	1,163	1,275	2,198	131	315	1,068
32	Stone, clay, & glass products..	23	770	3,143	625	1,332	2,263	5,941	253	368	2,562
33	Primary metal industries.....	40	4,164	20,010	3,395	7,011	15,267	39,237	1,682	4,791	38,414
34	Fabricated metal products.....	148	7,154	34,288	5,655	11,699	24,404	57,575	3,405	4,538	24,795
35	Machinery, except electrical...	218	15,734	75,976	11,845	24,432	53,831	105,865	9,245	14,206	72,214
36	Electrical machinery.....	64	5,995	25,982	4,413	9,195	17,125	35,232	2,208	3,728	18,563
37	Transportation equipment.....	17	8,102	41,475	6,478	13,440	31,111	107,989	1,007	6,358	(D)
38	Instruments & related products.	12	904	3,959	680	1,291	2,529	6,179	688	510	(D)

<sup>D</sup> Withheld to avoid disclosing data for individual companies.

<sup>1</sup> In order to avoid disclosing data for individual companies, the statistics for some industry groups are not shown. Industry groups reporting less than 100 employees are also omitted. They are included, however, in the "All industries" line.

<sup>2</sup> The 1954 and 1947 "All industries" totals are not strictly comparable because of differences in coverage of loggers and fluid milk distributors. See discussion in Introduction and footnotes to Table 4 for comparable figures at the State level.

<sup>3</sup> Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)



## MANUFACTURES—AREA STATISTICS

Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954

20 Food and kindred products	26 Pulp, paper and products	32 Stone, clay, and glass products	38 Instruments and related products
21 Tobacco manufactures	27 Printing and publishing	33 Primary metal industries	39 Miscellaneous manufactures (Includes Group 19 Ordnance and accessories)
22 Textile mill products	28 Chemicals and products	34 Fabricated metal products	
23 Apparel and related products	29 Petroleum and coal products	35 Machinery, except electrical	
24 Lumber and wood products	30 Rubber products	36 Electrical machinery	
25 Furniture and fixtures	31 Leather and leather goods	37 Transportation equipment	

(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
New Jersey, total.....	13,183	1,254	13	786	2,472	343	372	312	1,058	844	71	101	208	470	312	1,298	1,433	541	209	188	898
1 to 4 employees.....	4,348	505	2	155	649	167	161	50	546	227	13	17	46	153	68	461	585	116	80	62	285
5 to 9 employees.....	2,045	201	1	121	362	63	64	23	196	120	10	14	18	81	42	212	249	65	16	36	151
10 to 19 employees.....	2,042	177	1	146	390	48	60	53	138	113	13	11	38	63	41	240	232	88	26	23	141
20 to 49 employees.....	2,315	174	1	168	668	39	53	62	100	147	11	16	43	70	59	197	194	98	29	23	163
50 to 99 employees.....	1,070	91	...	88	249	17	23	46	37	91	6	12	25	43	35	94	69	44	16	17	67
100 to 249 employees.....	818	65	2	76	134	9	8	52	26	86	7	17	30	35	26	52	51	52	24	12	54
250 to 499 employees.....	300	21	3	17	15	...	1	23	8	35	2	9	7	12	21	25	29	36	3	5	28
500 to 999 employees.....	145	15	3	12	3	...	1	3	4	13	5	3	1	6	12	14	12	23	6	3	6
1,000 to 2,499 employees.....	73	3	...	2	2	...	1	...	3	8	2	1	...	7	8	2	10	11	4	6	3
2,500 employees and over.....	27	2	...	1	...	...	...	...	4	2	1	...	...	...	1	2	8	5	1	...	...
Atlantic:																					
1 to 19 employees.....	173	39	...	10	19	14	11	...	27	3	...	1	2	12	...	5	7	4	7	2	10
20 to 99 employees.....	65	15	...	2	30	1	...	...	2	1	...	...	...	5	...	2	1	...	3	1	2
100 employees and over.....	14	3	...	...	8	...	...	...	1	...	...	...	...	2	...	...	...	...	...	...	...
Bergen:																					
1 to 19 employees.....	1,019	85	1	43	187	28	36	10	118	56	2	3	11	24	12	112	158	39	4	25	65
20 to 99 employees.....	370	22	...	32	84	5	17	13	23	29	...	5	2	13	8	35	35	17	3	7	20
100 employees and over.....	110	6	...	10	8	...	...	15	4	16	1	...	4	2	4	7	8	4	8	6	7
Burlington:																					
1 to 19 employees.....	160	17	...	11	12	16	5	4	12	7	1	...	2	4	2	13	36	5	5	2	6
20 to 99 employees.....	55	6	...	9	7	3	...	1	2	2	...	...	2	3	2	5	5	3	4	...	1
100 employees and over.....	29	2	...	5	5	...	...	...	...	2	...	2	1	...	5	1	1	1	...	1	3
Camden:																					
1 to 19 employees.....	346	47	...	16	18	12	3	3	46	12	...	2	4	16	5	68	55	9	3	4	23
20 to 99 employees.....	106	14	...	8	19	...	2	3	6	8	...	2	1	8	3	11	9	3	1	3	5
100 employees and over.....	55	7	1	...	6	1	1	5	3	5	2	...	3	2	1	6	2	4	4	...	2
Cape May:																					
1 to 19 employees.....	55	16	...	2	6	4	...	...	6	...	...	1	...	3	1	2	...	1	9	1	3
20 to 99 employees.....	13	1	...	...	4	2	...	...	3	1	...	...	...	...	1	...	1	...	...	...	...
100 employees and over.....	4	1	...	...	1	...	...	...	...	...	...	1	...	1	...	...	...	...	...	...	...
Cumberland:																					
1 to 19 employees.....	148	34	...	3	10	8	...	1	16	11	...	...	...	28	4	7	15	...	6	1	4
20 to 99 employees.....	76	15	...	6	20	1	...	2	4	3	...	1	...	13	3	1	2	...	1	1	3
100 employees and over.....	33	6	...	2	12	3	...	...	1	...	...	...	...	5	1	...	1	...	2	...	...
Essex:																					
1 to 19 employees.....	1,801	132	...	37	148	38	85	33	248	123	7	10	39	30	46	274	239	70	14	34	194
20 to 99 employees.....	746	50	...	32	149	12	9	28	32	61	5	7	27	13	24	83	64	53	9	10	78
100 employees and over.....	270	33	1	6	14	1	2	10	5	23	1	2	13	...	12	25	25	48	7	9	33
Gloucester:																					
1 to 19 employees.....	112	21	...	10	11	6	5	1	9	4	2	...	1	8	3	13	9	2	3	...	4
20 to 99 employees.....	43	5	...	2	18	2	2	...	1	2	...	...	...	1	2	1	3	1	...	...	3
100 employees and over.....	9	1	...	...	2	...	...	...	...	2	2	...	...	...	...	1	...	1	...	...	...
Hudson:																					
1 to 19 employees.....	1,578	99	...	74	736	26	43	18	79	83	6	7	18	22	24	105	102	29	10	14	83
20 to 99 employees.....	574	36	...	46	223	4	15	23	11	50	3	2	10	8	13	34	25	18	8	4	41
100 employees and over.....	211	24	1	14	26	1	3	21	8	23	4	2	6	6	6	14	14	16	5	2	15
Hunterdon:																					
1 to 19 employees.....	56	13	...	2	2	7	1	...	6	9	...	...	...	5	1	1	2	1	1	...	5
20 to 99 employees.....	23	5	...	2	3	...	1	...	1	1	...	...	2	...	1	3	2	1	...	...	1
100 employees and over.....	7	1	...	...	...	...	...	2	...	...	...	1	...	1	1	...	1	...	...	...	...
Mercer:																					
1 to 19 employees.....	272	57	...	3	11	10	9	5	44	4	...	1	4	25	6	31	38	8	2	...	14
20 to 99 employees.....	87	17	...	4	11	2	1	1	3	3	...	2	1	8	3	12	10	2	...	...	7
100 employees and over.....	84	1	2	8	4	...	1	3	3	8	...	11	1	14	3	7	4	6	3	1	4
Middlesex:																					
1 to 19 employees.....	319	49	...	4	52	7	12	9	27	25	1	3	3	16	2	43	30	8	9	3	16
20 to 99 employees.....	209	15	...	4	75	7	2	8	8	21	4	1	9	14	8	12	11	2	1	3	4
100 employees and over.....	123	3	3	4	14	2	2	4	3	22	4	3	4	11	15	3	6	7	3	4	6
Monmouth:																					
1 to 19 employees.....	277	47	...	1	38	14	7	3	32	10	2	1	1	17	5	28	20	9	18	6	18
20 to 99 employees.....	105	11	...	3	50	...	3	...	3	1	...	2	1	2	2	4	5	10	2	1	5
100 employees and over.....	24	2	...	2	8	...	...	...	1	1	...	...	...	2	...	...	2	5	...	...	1
Morris:																					
1 to 19 employees.....	235	26	...	8	8	13	7	3	21	12	3	2	...	16	3	19	50	16	4	11	13
20 to 99 employees.....	66	2	...	3	7	2	...	1	6	3	...	2	2	3	3	5	8	8	2	1	8
100 employees and over.....	51	1	...	2	5	1	1	4	...	6	...	3	2	2	2	4	6	7	1	...	4
Ocean:																					
1 to 19 employees.....	103	14	...	3	9	7	3	...	16	4	2	...	...	12	1	7	5	...	14	...	6
20 to 99 employees.....	16	2	...	...	6	1	...	...	1	2	...	...	...	...	...	...	1	...	3	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
Passaic:																					
1 to 19 employees.....	896	80	3	176	94	26	23	21	80	50	2	7	7	26	13	74	127	23	4	7	53
20 to 99 employees.....	419	17	1	90	121	6	15	15	16	17	...	3	4	5	6	35	30	9	3	3	23
100 employees and over.....	142	6	...	46	20	...	...	4	6	11	...										

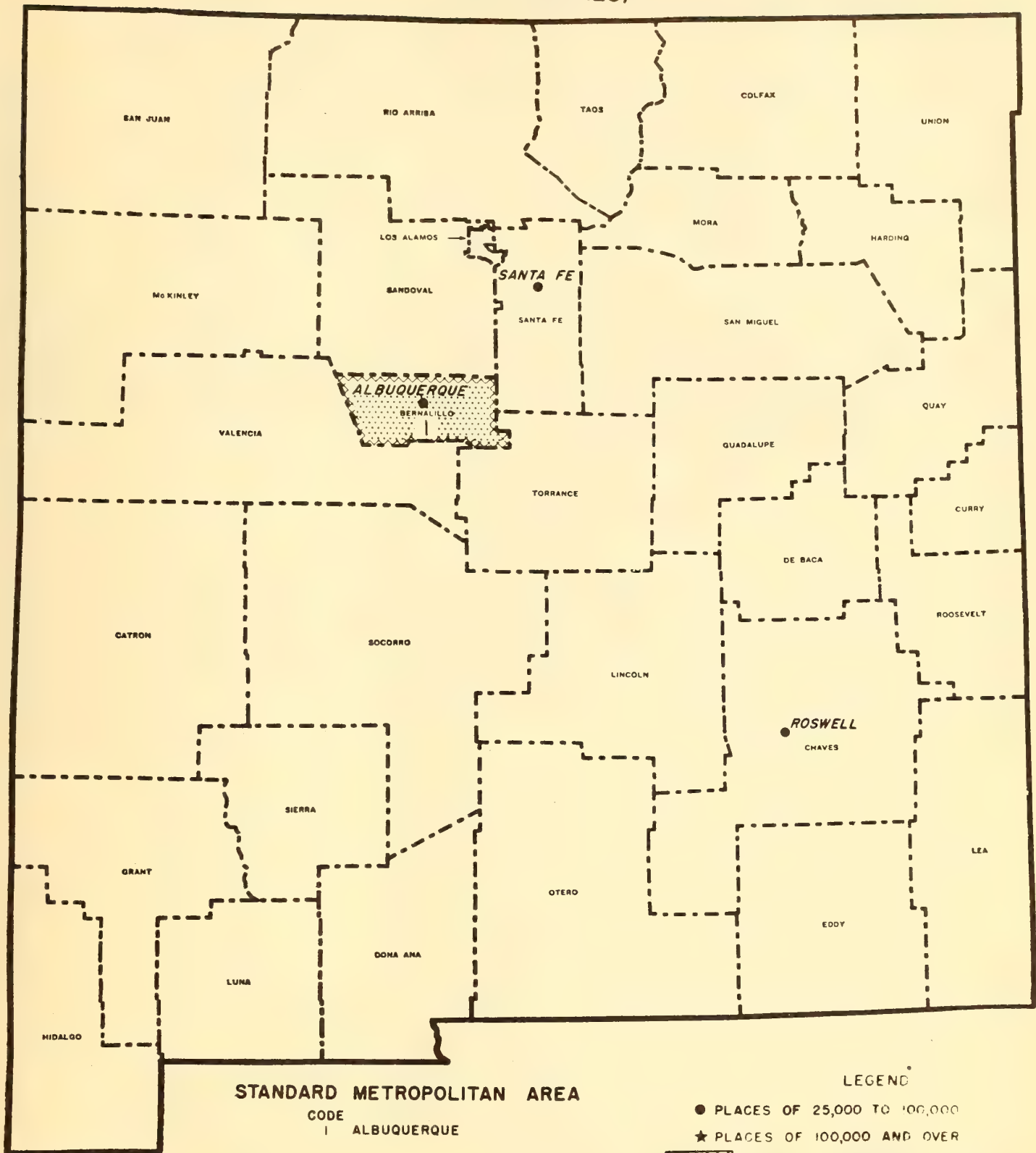


Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954—Continued  
(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Sussex:																					
1 to 19 employees.....	52	9	...	2	2	4	1	1	8	4	...	1	1	5	...	2	4	2	...	4	2
20 to 99 employees.....	15	3	...	...	6	1	1	...	1	...	...	...	...	1	...	1	...	...	...	1	...
100 employees and over.....	7	...	...	1	3	...	...	...	...	...	...	1	...	...	1	...	...	...	...	1	...
Union:																					
1 to 19 employees.....	648	46	...	10	28	27	30	12	65	40	5	3	5	13	19	94	152	36	6	5	52
20 to 99 employees.....	297	19	...	3	57	6	7	8	8	25	5	...	5	8	14	38	44	14	5	5	26
100 employees and over.....	141	8	...	2	15	...	1	7	5	19	2	1	2	2	7	16	22	14	6	2	10
Warren:																					
1 to 19 employees.....	60	19	...	6	4	5	...	...	4	1	1	...	4	5	1	4	5	1	...	...	...
20 to 99 employees.....	40	1	...	9	8	...	1	4	2	1	...	...	2	4	...	4	3	1	...	...	...
100 employees and over.....	18	...	...	3	...	...	...	2	1	2	...	...	...	...	3	2	2	3	...	...	...



# NEW MEXICO (32 COUNTIES)





## MANUFACTURES—AREA STATISTICS

Table 1.—MANUFACTURING EMPLOYMENT AT OPERATING ESTABLISHMENTS AND CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARIES FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS

(This table includes data for all manufacturing employees including those located in central administrative offices and auxiliaries. Tables 2-7 in this report include data for operating establishments only. For explanation of column captions see Introduction)

State, standard metropolitan areas, and year <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	(Number)	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
New Mexico:						
1954.....	15,061	62,718	14,955	62,213	106	505
1953 <sup>2</sup> .....	12,753	57,539	12,737	57,479	16	60
1952 <sup>2</sup> .....	15,384	60,599	15,364	60,515	<sup>3</sup> 20	<sup>3</sup> 84
1951 <sup>2</sup> .....	14,741	50,507	14,721	50,423	20	84
1950 <sup>2</sup> .....	13,529	39,006	13,514	38,950	15	56
1949 <sup>2</sup> .....	8,809	24,786	8,740	24,454	69	332
1954						
Standard metropolitan areas:						
Albuquerque <sup>4</sup> .....	9,378	43,988	9,281	43,525	97	463

<sup>1</sup>Employment data for administrative offices and auxiliaries on a State basis are not available for the years prior to 1949. Similar data for standard metropolitan areas are available only for 1954.<sup>2</sup>The employment figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period. The employment figures for administrative and auxiliary units were compiled chiefly from Bureau of Old-Age and Survivors Insurance records and are not strictly comparable with the figures for these units that were collected by the Bureau of the Census for the year 1954.<sup>3</sup>The 1951 data are shown for 1952 as auxiliary and administrative unit data were not collected in 1952. In some instances, the figures have been withheld because the estimates did not meet publication standards.<sup>4</sup>The Albuquerque Standard Metropolitan Area consists of Bernalillo County, New Mexico.

## NEW MEXICO

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Table 2.—GENERAL STATISTICS FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1954 AND EARLIER YEARS  
(For explanation of column captions see Introduction)

Year	Establish- ments, number	All employees		Production workers		Value added by manufacture (\$1,000)	
		Number	Payroll (\$1,000)	Number	Wages (\$1,000)		
NEW MEXICO							
1954 <sup>1</sup> .....	593	14,955	62,213	9,380	32,635	126,326	
1953 <sup>2</sup> .....	}	12,737	57,479	10,350	39,391	129,248	
1952 <sup>2</sup> .....		15,364	60,515	12,175	44,348	128,211	
1951 <sup>2</sup> .....		14,721	50,423	11,041	35,726	121,633	
1950 <sup>2</sup> .....		(NA)	13,514	38,950	10,755	27,832	102,897
1949.....			8,740	24,454	7,794	20,850	51,694
1947.....	431	6,696	14,964	5,530	11,438	32,136	
1939.....	262	4,107	4,182	3,219	2,875	8,640	
1937.....	241	4,189	3,760	3,683	2,992	9,114	
1935.....	197	3,231	2,951	2,827	2,233	5,761	
1933.....	160	(NA)	(NA)	2,996	2,333	4,737	
1931.....	196	(NA)	(NA)	2,842	3,575	6,298	
1929.....	250	5,070	6,831	4,476	5,565	11,278	
1927.....	200	(NA)	(NA)	4,653	5,421	10,127	
1925.....	200	(NA)	(NA)	4,629	5,083	9,774	
1923.....	186	(NA)	(NA)	5,459	6,484	10,468	
1921.....	194	(NA)	(NA)	4,477	4,880	7,738	
1919.....	387	6,310	7,686	5,736	6,658	10,129	
1914.....	368	4,269	3,273	3,776	2,695	4,890	
1909.....	313	4,478	2,974	4,143	2,591	4,637	
1904.....	199	3,702	2,417	3,478	2,153	3,470	
1899.....	174	2,578	1,290	2,490	1,199	2,062	
STANDARD METROPOLITAN AREA (None with 40,000 or more manufacturing employees in this State)							

NA Not available.

<sup>1</sup>The 1954 figures include data for establishments engaged in the processing and distribution of fluid milk, Industry Group 202, Dairy Products. These establishments were not included in the figures for the Annual Survey years 1949-1953 or earlier Census years. In addition, the 1954 Census and Annual Survey years include data for Logging Camps and Contractors, Industry 2411, which were not included within the scope of the 1947 Census. See footnotes to Table 4 for comparable 1954 and 1947 totals. There were also a number of changes in the definition of manufacturing industries during earlier Census years that affect the comparability of the historical series. Among the more important of these were: figures for 1935 and later years exclude data for "Railroad repair shops" and "Manufactured gas" which were included in 1899-1933 figures; the minimum size of establishment included for 1954 and 1947 was one employee, for 1939-1921 manufacturing establishments reporting value of shipments of \$5,000 or more were within scope whereas for 1919 and earlier years the cutoff was \$500. (This change in procedure has not appreciably affected the comparability of the historical data except for the figures on number of establishments.)

<sup>2</sup>The employment and payroll figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period.

## MANUFACTURES—AREA STATISTICS

Table 3.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947

(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
New Mexico, total.....	681,187	593	14,955	62,213	9,380	18,518	32,635	126,326	6,585	( <sup>1</sup> )	( <sup>1</sup> )
STANDARD METROPOLITAN AREAS											
Albuquerque.....	145,673	180	9,281	43,525	4,822	9,442	18,656	85,740	2,957	1,954	8,743
COUNTIES											
Bernalillo.....	145,673	180	9,281	43,525	4,822	9,442	18,656	85,740	2,957	1,954	8,743
Catron.....	3,533	13	139	382	133	256	356	687	99	61	227
Chaves.....	40,605	27	512	1,899	346	729	1,008	3,735	303	459	2,567
Colfax.....	16,761	18	248	646	216	388	506	1,119	90	209	828
Curry.....	23,351	26	313	998	232	417	687	2,004	89	205	944
De Baca.....	3,464	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	11	15
Dona Ana.....	39,557	20	361	1,298	275	646	951	2,236	68	263	(D)
Eddy.....	40,640	28	602	2,401	464	964	1,750	6,040	970	368	2,503
Grant.....	21,649	12	468	1,836	394	833	1,542	5,051	104	371	(D)
Guadalupe.....	6,772	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Harding.....	3,013	3	21	(D)	17	(D)	(D)	(D)	(D)	33	(D)
Hidalgo.....	5,095	5	16	46	12	24	34	95	2	8	27
Lea.....	30,717	24	354	1,615	284	614	1,237	5,280	128	269	2,471
Lincoln.....	7,409	6	15	33	13	26	26	55	15	35	122
Los Alamos.....	10,476	...	...	...	...	...	...	...	...	...	...
Luna.....	8,753	10	227	706	185	390	514	827	196	59	278
McKinley.....	27,451	17	134	486	107	219	400	1,801	112	167	855
Mora.....	8,720	12	56	71	54	71	70	180	34	67	(D)
Otero.....	14,909	13	275	1,124	241	512	952	2,079	216	441	2,333
Quay.....	13,971	9	45	113	29	55	71	122	101	53	236
Rio Arriba.....	24,997	18	366	869	350	686	805	1,105	118	127	236
Roosevelt.....	16,409	13	182	527	106	240	309	2,102	83	172	612
Sandoval.....	12,438	7	147	(D)	145	(D)	(D)	(D)	(D)	(D)	(D)
San Juan.....	18,292	12	83	266	66	137	208	575	34	52	257
San Miguel.....	26,512	21	141	346	117	209	237	378	63	91	264
Santa Fe.....	38,153	37	450	1,262	332	637	803	1,595	131	457	1,787
Sierra.....	7,186	4	20	(D)	13	(D)	(D)	(D)	(D)	29	96
Socorro.....	9,670	9	51	116	45	76	99	207	190	21	65
Taos.....	17,146	28	280	608	252	426	542	842	144	76	127
Torrance.....	8,012	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Union.....	7,372	5	20	42	15	29	31	128	193	11	57
Valencia.....	22,481	11	103	246	71	102	149	566	23	415	1,261
CITIES WITH 10,000 INHAB- ITANTS OR MORE											
Albuquerque.....	96,815	159	3,360	12,280	2,227	4,405	7,210	22,016	2,819	1,466	6,207
Carlsbad.....	17,975	14	168	646	103	208	364	928	96	(NA)	(NA)
Clovis.....	17,318	25	310	977	229	412	678	1,929	88	167	(D)
Hobbs.....	13,875	12	90	357	67	143	256	605	38	84	445
Las Cruces.....	12,325	13	124	451	88	236	281	884	44	(NA)	(NA)
Roswell.....	25,738	24	461	1,744	305	629	893	3,321	247	344	1,902
Santa Fe.....	27,998	32	390	1,058	289	551	679	1,452	102	457	1,787

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>The 1947 data are not strictly comparable with the figures shown for 1954 due to differences in coverages of loggers and fluid milk distributors. See discussion in Introduction and footnotes to Table 4.



Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establish- ments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
	All Industries, total <sup>1</sup> ...	593	101	14,955	62,213	9,380	18,518	32,635	126,326	( <sup>2</sup> )	6,585	( <sup>3</sup> )	( <sup>3</sup> )
20	Food and kindred products..	155	29	2,654	8,596	1,611	3,461	4,272	17,359	( <sup>2</sup> )	1,481	( <sup>3</sup> )	( <sup>3</sup> )
201	Meat products.....	18	4	367	1,319	253	641	789	2,436	( <sup>2</sup> )	152	265	1,334
2011	Meat packing, plants.....	12	4	345	1,251	235	609	739	2,372	( <sup>2</sup> )	143	259	(D)
202	Dairy products.....	29	7	763	2,572	390	834	1,056	5,578	( <sup>2</sup> )	441	( <sup>3</sup> )	( <sup>3</sup> )
2027	Fluid milk and other products..	17	6	653	2,218	321	687	868	4,888	12,778	372	( <sup>3</sup> )	( <sup>3</sup> )
204	Grain mill products.....	17	3	293	935	198	431	570	2,102	( <sup>2</sup> )	305	117	908
2042	Prepared animal feeds.....	13	3	249	791	164	359	497	1,863	7,300	284	117	908
205	Bakery products.....	28	7	545	1,732	371	803	1,011	2,989	6,422	266	487	2,156
2051	Bread and related products.....	28	7	545	1,732	371	803	1,011	2,989	6,422	266	487	2,156
208	Beverages.....	32	6	425	1,392	229	404	479	2,827	5,314	182	332	1,474
2081	Bottled soft drinks.....	32	6	425	1,392	229	404	479	2,827	5,314	182	320	(D)
209	Miscellaneous foods.....	24	2	222	541	137	282	297	1,206	( <sup>2</sup> )	112	284	1,128
2097	Manufactured ice.....	11	2	138	367	68	140	169	811	929	25	247	(D)
23	Food preparations, n.e.c.....	23	3	278	408	246	326	360	956	( <sup>2</sup> )	(D)	295	648
233	Women's and misses' outerwear	10	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2333	Dresses, unit price.....	5	2	121	228	101	182	195	252	423	(D)	...	...
24	Lumber and wood products...	143	26	2,032	5,960	1,903	3,553	5,350	9,988	( <sup>2</sup> )	1,152	( <sup>3</sup> )	( <sup>3</sup> )
242	Lumber and basic products....	103	21	1,597	4,403	1,504	2,792	3,975	7,271	16,498	963	1,527	5,826
2421	Sawmills and planing mills.....	103	21	1,597	4,403	1,504	2,792	3,975	7,271	16,498	963	1,527	5,826
243	Millwork and related products	20	4	313	1,264	281	584	1,115	2,118	6,144	105	197	(D)
2431	Millwork plants.....	20	4	313	1,264	281	584	1,115	2,118	6,144	104	197	(D)
25	Furniture and fixtures.....	20	1	113	367	83	157	236	583	( <sup>2</sup> )	12	144	429
27	Printing and publishing....	94	8	1,079	4,042	669	1,240	2,584	7,460	( <sup>2</sup> )	1,010	752	3,729
2711	Newspapers.....	43	6	791	3,028	450	809	1,800	5,673	7,333	877	519	2,761
2751	Commercial printing.....	31	2	211	792	168	333	623	1,317	1,915	81	182	776
28	Chemicals and products.....	21	10	5,967	31,807	2,690	5,267	12,169	67,472	( <sup>2</sup> )	533	343	2,999
288	Vegetable and animal oil.....	5	4	170	691	151	388	550	1,827	( <sup>2</sup> )	...	(D)	(D)
29	Petroleum and coal products	7	6	496	2,247	395	845	1,708	6,454	( <sup>2</sup> )	599	(D)	(D)
31	Leather and leather goods..	8	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	17	33
32	Stone, clay and glass products.....	37	5	386	1,104	306	580	766	1,697	( <sup>2</sup> )	184	326	1,030
327	Concrete and plaster products	26	3	251	813	197	368	552	1,296	( <sup>2</sup> )	107	214	(D)
33	Primary metal industries...	4	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
34	Fabricated metal products..	19	1	190	700	144	293	502	974	( <sup>2</sup> )	51	151	758
344	Structural metal products....	15	1	175	650	134	273	468	925	( <sup>2</sup> )	48	33	(D)
35	Machinery, except electri- cal.....	24	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	32	115
359	Miscellaneous machinery parts	14	1	103	459	81	177	349	771	1,327	50	...	...
3599	Machine shops.....	14	1	103	459	81	177	349	771	1,327	50	...	...
36	Electrical machinery.....	2	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...	...
37	Transportation equipment...	3	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
38	Instruments and related products.....	5	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
39	Miscellaneous manufactures <sup>4</sup>	28	5	963	1,218	634	1,335	2,160	6,159	( <sup>2</sup> )	1,292	305	1,102
391	Jewelry and silverware.....	5	2	260	690	227	386	472	929	( <sup>2</sup> )	27	194	(D)

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industries (4-digit) and industry groups (3-digit) are not shown. Industries and industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "all industries" line.

<sup>2</sup>The total value of shipments figures for industry groups and a few individual industries have not been published due to the extensive and unmeasurable duplication arising from shipments from one establishment to another in the same industry classification. (See Introduction.)

<sup>3</sup>Comparable data are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude establishments in S.I.C. Industry 2411, Logging Camps and Contractors, which are included in the scope of the 1954 Census; the 1947 Census also excludes plants processing and distributing fluid milk which in 1954 were classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	All industries except subgroups 202 and 2411, total.....	14,070	120,149	6,585	31,754
20	Food and kindred products except subgroup 202, Dairy products.....	1,891	11,781	1,595	7,516
24	Lumber and wood products except Industry 2411, Logging camps and contractors.....	1,910	9,389	1,910	8,250

<sup>4</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)



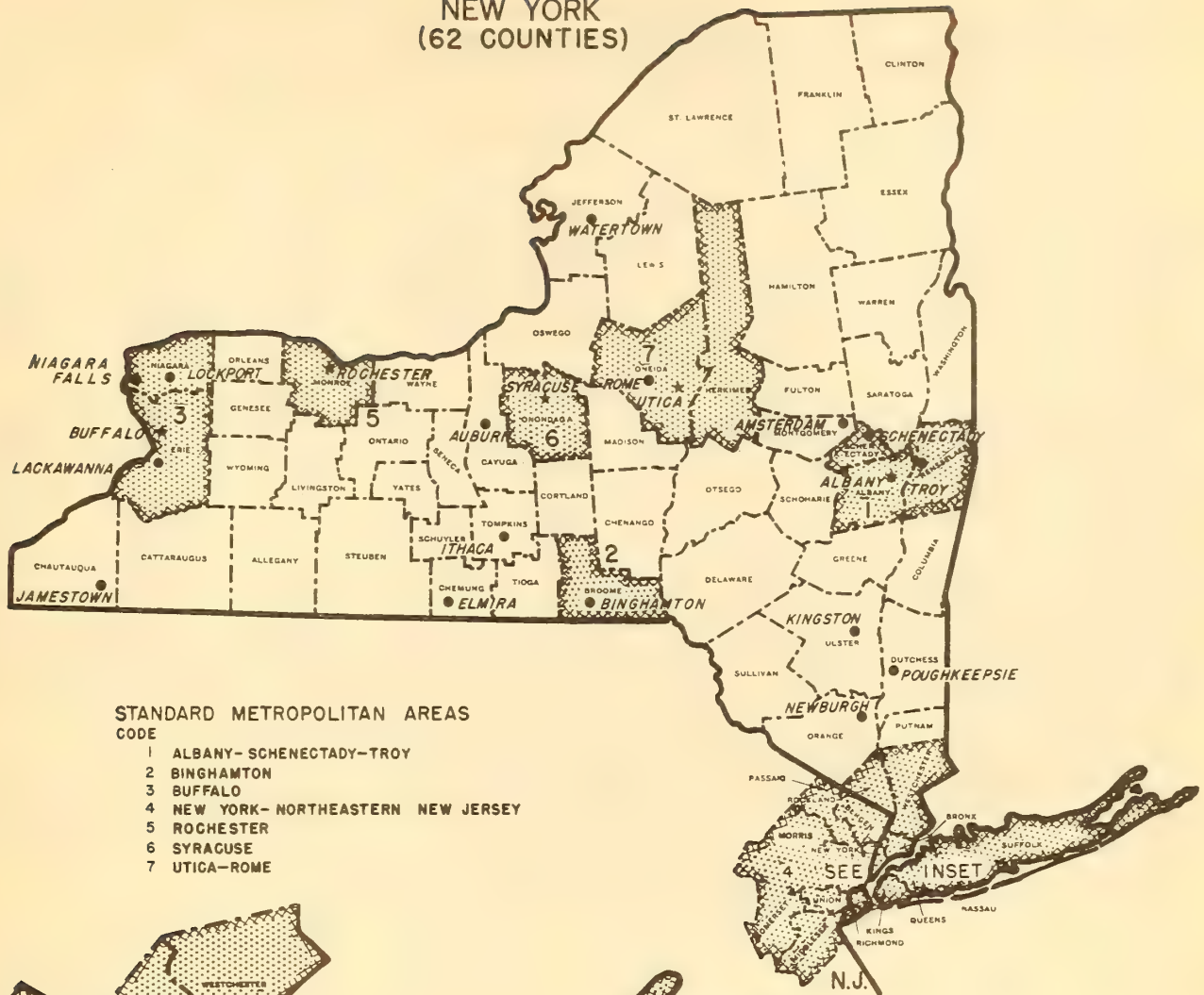
Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954—Continued  
(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Sandoval:																					
1 to 19 employees.....	4	...	...	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	3	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
San Juan:																					
1 to 19 employees.....	12	3	...	...	...	...	1	...	3	...	1	...	...	2	...	1	...	...	...	...	...
San Miguel:																					
1 to 19 employees.....	19	6	...	...	...	8	...	...	2	...	...	...	...	3	...	...	...	...	...	...	...
20 to 99 employees.....	2	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
Santa Fe:																					
1 to 19 employees.....	32	8	...	...	2	4	1	...	6	2	...	...	1	2	1	2	...	...	...	1	2
20 to 99 employees.....	5	...	...	...	1	2	...	...	1	...	...	...	1	...	...	...	...	...	...	...	...
Sierra:																					
1 to 19 employees.....	4	...	...	...	...	2	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
Socorro:																					
1 to 19 employees.....	9	1	...	...	...	5	...	...	2	...	...	...	...	1	...	...	...	...	...	...	...
Taos:																					
1 to 19 employees.....	26	1	...	...	1	21	...	...	1	...	...	...	1	...	...	...	...	...	...	...	...
20 to 99 employees.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Torrance:																					
1 to 19 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Union:																					
1 to 19 employees.....	5	2	...	...	...	...	...	...	1	1	...	...	1	...	...	...	...	...	...	...	...
Valencia:																					
1 to 19 employees.....	10	3	...	...	...	5	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...





# NEW YORK (62 COUNTIES)



## STANDARD METROPOLITAN AREAS CODE

- 1 ALBANY-SCHENECTADY-TROY
- 2 BINGHAMTON
- 3 BUFFALO
- 4 NEW YORK-NORTHEASTERN NEW JERSEY
- 5 ROCHESTER
- 6 SYRACUSE
- 7 UTICA-ROME



INSET

## LEGEND

- PLACES OF 25,000 TO 100,000
- ★ PLACES OF 100,000 AND OVER
- STANDARD METROPOLITAN AREAS

## MANUFACTURES—AREA STATISTICS

Table 1.—MANUFACTURING EMPLOYMENT AT OPERATING ESTABLISHMENTS AND CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARIES FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS

(This table includes data for all manufacturing employees including those located in central administrative offices and auxiliaries. Tables 2-7 in this report include data for operating establishments only. For explanation of column captions see Introduction)

State, standard metropolitan areas, and year <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	(Number)	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
New York:						
1954.....	2,008,072	8,472,625	1,895,982	7,734,388	112,090	738,237
1953 <sup>2</sup> .....	2,053,428	8,419,085	1,977,426	7,996,237	76,002	422,848
1952 <sup>2</sup> .....	1,950,032	7,623,909	1,889,036	7,321,717	<sup>3</sup> 60,996	<sup>3</sup> 302,192
1951 <sup>2</sup> .....	1,877,226	7,013,445	1,816,230	6,711,253	60,996	302,192
1950 <sup>2</sup> .....	1,829,479	6,170,564	1,762,624	5,878,192	66,855	292,372
1949 <sup>2</sup> .....	1,768,626	5,750,091	1,704,398	5,474,015	64,228	276,076
1954						
Standard metropolitan areas:						
Albany-Schenectady-Troy <sup>4</sup> .....	85,882	403,142	71,981	323,518	13,901	79,624
Binghamton <sup>5</sup> .....	42,147	165,368	40,502	159,561	1,645	5,807
Buffalo <sup>6</sup> .....	203,357	946,591	200,801	933,873	2,556	12,718
New York-Northeastern New Jersey <sup>7</sup> .....	1,832,703	7,779,531	1,731,977	7,095,016	100,726	684,515
Rochester <sup>8</sup> .....	115,180	531,822	111,385	508,033	3,795	23,789
Syracuse <sup>9</sup> .....	60,355	257,058	57,440	242,617	2,915	14,441
Utica-Rome <sup>10</sup> .....	43,125	169,169	42,941	168,193	184	976

<sup>1</sup>Employment data for administrative offices and auxiliaries on a State basis are not available for the years prior to 1949. Similar data for standard metropolitan areas are available only for 1954.<sup>2</sup>The employment figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period. The employment figures for administrative and auxiliary units were compiled chiefly from Bureau of Old-Age and Survivors Insurance records and are not strictly comparable with the figures for these units that were collected by the Bureau of the Census for the year 1954.<sup>3</sup>The 1951 data are shown for 1952 since auxiliary and administrative unit data were not collected in 1952.<sup>4</sup>The Albany-Schenectady-Troy Standard Metropolitan Area consists of Albany, Rensselaer, and Schenectady Counties, New York.<sup>5</sup>The Binghamton Standard Metropolitan Area consists of Broome County, New York.<sup>6</sup>The Buffalo Standard Metropolitan Area consists of Erie and Niagara Counties, New York.<sup>7</sup>The New York-Northeastern New Jersey Standard Metropolitan Area consists of New York City (Bronx, Kings, New York, Queens and Richmond Counties); Nassau, Rockland, Suffolk, and Westchester Counties, New York; Bergen, Essex, Hudson, Middlesex, Morris, Passaic, Somerset, and Union Counties, New Jersey.<sup>8</sup>The Rochester Standard Metropolitan Area consists of Monroe County, New York.<sup>9</sup>The Syracuse Standard Metropolitan Area consists of Onondaga County, New York.<sup>10</sup>The Utica-Rome Standard Metropolitan Area consists of Herkimer and Oneida Counties, New York.



Table 2.—GENERAL STATISTICS FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Year	Establish- ments, number	All employees		Production workers		Value added by manufacture (\$1,000)	
		Number	Payroll (\$1,000)	Number	Wages (\$1,000)		
NEW YORK							
1954 <sup>1</sup> .....	50,402	1,895,982	7,734,388	1,470,137	5,231,858	14,140,524	
1953 <sup>2</sup> .....	}	1,977,426	7,996,237	1,555,434	5,546,020	14,410,234	
1952 <sup>2</sup> .....		1,889,036	7,321,717	1,472,952	5,047,403	13,145,941	
1951 <sup>2</sup> .....		1,816,230	6,711,253	1,427,398	4,649,236	11,933,729	
1950 <sup>2</sup> .....		(NA)	1,762,624	5,878,192	1,365,557	4,083,728	10,511,860
1949 <sup>2</sup> .....		1,704,398	5,474,015	1,318,111	3,765,549	9,528,110	
1947.....	47,782	1,773,138	5,277,656	1,425,033	3,821,492	9,655,859	
1939.....	32,672	1,211,010	1,749,676	949,362	1,151,820	3,313,649	
1937.....	29,749	1,184,274	1,674,909	995,658	1,236,048	3,316,180	
1935.....	33,569	1,052,052	1,381,746	878,592	991,678	2,656,335	
1933.....	25,979	(NA)	(NA)	733,452	754,367	2,399,873	
1931.....	34,604			848,352	1,105,559	3,413,843	
1929.....	39,395	1,331,357	2,294,882	1,105,966	1,650,379	4,973,920	
1927.....	36,650	(NA)	(NA)	1,072,284	1,605,378	4,595,889	
1925.....	33,393			1,066,202	1,533,893	4,263,558	
1923.....	38,186	(NA)	(NA)	1,150,901	1,581,349	4,196,012	
1921.....	38,107			1,000,414	1,303,421	3,285,922	
1919.....	48,331	1,467,443	1,961,398	1,221,933	1,450,119	3,908,864	
1914.....	47,241	1,235,533	869,297	1,053,547	627,155	1,698,779	
1909.....	44,935	1,155,672	743,263	1,003,981	557,231	1,512,586	
1904.....	37,194	954,959	541,160	856,947	430,015	1,139,742	
1899.....	35,957	794,939	414,064	726,909	337,324	853,454	
ALBANY-SCHENECTADY-TROY STANDARD METROPOLITAN AREA							
1954 <sup>1</sup> .....	675	71,981	323,518	51,177	205,508	584,708	
1947.....	601	71,388	203,664	55,536	147,056	324,346	
1939.....	537	45,899	68,698	36,217	45,981	126,192	
1929.....	677	67,852	105,244	58,771	83,033	178,252	
1919.....	73	(NA)	(NA)	63,815	67,799	157,684	
BINGHAMTON STANDARD METROPOLITAN AREA							
1954 <sup>1</sup> .....	289	40,502	159,561	32,523	112,853	268,720	
1947.....	(NA)	35,769	(NA)	(NA)	(NA)	159,879	
BUFFALO STANDARD METROPOLITAN AREA							
1954 <sup>1</sup> .....	1,829	200,801	933,873	152,882	655,297	1,677,778	
1947.....	1,693	183,876	557,384	149,758	424,928	1,023,231	
1939.....	1,356	115,589	183,753	90,244	125,565	391,785	
1929.....	1,896	128,704	212,117	108,966	160,766	480,123	
1919.....	2,913	(NA)	(NA)	116,633	152,180	346,627	
NEW YORK-NORTHEASTERN NEW JERSEY STANDARD METROPOLITAN AREA							
1954 <sup>1</sup> .....	51,403	1,731,977	7,095,016	1,336,116	4,714,688	13,115,922	
1947.....	48,281	1,598,662	4,919,631	1,269,283	3,485,822	9,310,900	
1939.....	32,132	1,116,708	1,646,817	867,953	1,062,156	3,126,135	
1929.....	36,923	1,110,942	1,988,775	910,870	1,399,940	4,452,465	
1919.....	42,293	(NA)	(NA)	1,057,677	1,300,273	3,592,026	
ROCHESTER STANDARD METROPOLITAN AREA							
1954 <sup>1</sup> .....	979	111,385	508,033	83,246	338,183	919,779	
1947.....	907	107,493	319,227	85,696	234,932	514,543	
1939.....	755	67,004	106,494	50,898	70,381	207,730	
1929.....	1,044	74,107	119,628	62,239	87,844	247,685	
1919.....	1,536	(NA)	(NA)	67,553	73,332	195,916	
SYRACUSE METROPOLITAN AREA							
1954 <sup>1</sup> .....	568	57,440	242,617	40,630	157,002	478,545	
1947.....	512	54,563	158,093	43,328	116,729	275,257	
1939.....	381	29,740	40,898	25,563	31,592	82,777	
1929.....	549	41,031	68,360	35,060	52,556	141,615	
1919.....	864	(NA)	(NA)	37,372	43,957	101,577	

See footnotes at end of table.

## MANUFACTURES--AREA STATISTICS

Table 2.--GENERAL STATISTICS FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1954 AND 1954 AND EARLIER YEARS--Continued

Year	Establish- ments, number	All employees		Production workers		Value added by manufacture (\$1,000)
		Number	Payroll (\$1,000)	Number	Wages (\$1,000)	
	UTICA-ROME STANDARD METROPOLITAN AREA					
1954 <sup>1</sup> .....	503	42,941	168,193	34,003	122,010	328,206
1947.....	430	50,975	140,601	44,202	113,932	232,985
1939.....	383	35,885	41,632	32,263	33,651	79,945
1929.....	515	43,212	56,829	37,974	43,871	106,355
1919.....	898	(NA)	(NA)	43,973	45,469	97,553

NA Not available.

<sup>1</sup>The 1954 figures include data for establishments engaged in the processing and distribution of fluid milk, Industry Group 202, Dairy Products. These establishments were not included in the figures for the Annual Survey years 1949-1953 or earlier Census years. In addition, the 1954 Census and Annual Survey years include data for Logging Camps and Contractors, Industry 2411, which were not included within the scope of the 1947 Census. See footnotes to Table 4 for comparable 1954 and 1947 totals. There were also a number of changes in the definition of manufacturing industries during earlier Census years that affect the comparability of the historical series. Among the more important of these were: figures for 1935 and later years exclude data for "Railroad repair shops" and "Manufactured gas" which were included in 1899-1933 figures; the minimum size of establishment included for 1954 and 1947 was one employee, for 1939-1921 manufacturing establishments reporting value of shipments of \$5,000 or more were within scope whereas for 1919 and earlier years the cutoff was \$500. (This change in procedure has not appreciably affected the comparability of the historical data except for the figures on number of establishments.)

<sup>2</sup>The employment and payroll figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period.

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Table 3.--GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
New York, total.....	14,830,192	50,402	1,895,982	7,734,388	1,470,137	2,842,598	5,231,858	14,140,524	572,125	1,773,138	19,655,859
STANDARD METROPOLITAN AREAS											
Albany-Schenectady-Troy.....	514,490	675	71,981	323,518	51,177	101,649	205,508	584,708	44,627	71,388	324,346
Binghamton area.....	184,698	289	40,502	159,561	32,523	60,697	112,853	268,720	15,213	35,769	159,879
Buffalo area.....	1,089,230	1,829	200,801	933,873	152,882	306,577	655,297	1,677,778	139,477	183,876	1,023,231
New York-Northeastern-New Jersey area.....	12,911,994	51,403	1,731,977	7,095,016	1,336,116	2,566,509	4,714,688	13,115,922	444,124	1,598,662	9,310,900
Portion in New York.....	9,555,943	41,012	1,120,638	4,453,870	872,130	1,651,802	2,943,559	8,133,224	183,330	1,027,001	5,984,484
Portion in New Jersey.....	3,356,051	10,391	611,339	2,641,146	463,986	914,707	1,771,129	4,982,698	260,794	571,661	3,326,416
Rochester area.....	487,632	979	111,385	508,033	83,246	163,733	338,183	919,779	58,810	107,493	514,543
Syracuse area.....	341,719	568	57,440	242,617	40,630	81,596	157,002	478,545	24,942	54,563	275,257
Utica-Rome area.....	284,262	503	42,941	168,193	34,003	65,963	122,010	328,206	10,191	50,975	232,985
COUNTIES											
Albany.....	239,386	336	22,500	91,788	17,143	34,131	62,339	159,022	7,101	22,273	116,711
Allegany.....	43,784	80	3,226	13,016	2,460	4,864	9,028	25,909	849	3,032	14,334
Bronx (Bronx Borough) <sup>2</sup> .....	1,451,277	2,078	52,472	184,843	42,990	81,879	132,417	323,030	8,256	41,323	194,500
Broome.....	184,698	289	40,502	159,561	32,523	60,697	112,853	268,720	15,213	35,769	159,879
Cattaraugus.....	77,901	139	8,716	34,225	6,762	13,544	23,782	56,382	2,244	8,681	45,334
Cayuga.....	70,136	134	8,197	32,354	6,431	12,644	23,294	53,350	1,750	10,088	48,081
Chautauqua.....	135,189	326	22,743	92,010	18,884	38,807	72,491	162,708	5,682	22,560	109,776
Chemung.....	86,827	109	16,203	65,634	13,262	26,891	50,715	132,627	6,396	16,358	74,571
Chenango.....	39,138	96	4,045	14,840	3,048	6,433	9,356	38,014	1,003	3,052	20,525
Clinton.....	53,622	61	2,333	7,819	1,900	3,923	6,125	23,407	845	2,857	19,664
Columbia.....	43,182	96	4,168	14,507	3,370	7,000	10,318	29,180	1,226	4,647	23,302
Cortland.....	37,158	86	5,095	16,648	4,273	8,667	12,485	33,473	711	5,279	27,357
Delaware.....	44,420	88	5,762	22,458	4,221	8,615	15,038	36,025	1,218	3,158	14,247
Dutchess.....	136,781	232	20,191	93,723	15,047	31,260	61,990	153,288	6,942	14,692	70,587
Erie.....	899,238	1,529	148,247	679,214	114,180	228,112	484,674	1,213,897	109,034	139,985	752,621
Essex.....	35,086	84	1,583	5,499	1,417	2,940	4,779	7,935	910	1,498	6,082
Franklin.....	44,830	76	1,972	5,048	1,706	3,182	3,986	7,936	247	1,646	4,427
Fulton.....	51,021	273	7,754	21,939	6,916	12,652	17,606	34,230	1,042	10,840	37,506
Genesee.....	47,584	80	6,760	27,135	5,684	11,925	21,587	56,428	3,854	6,169	33,795
Greene.....	28,745	62	1,896	6,437	1,718	3,450	5,370	12,354	10,494	1,663	7,089
Hamilton.....	4,105	24	240	678	212	417	572	1,205	96	145	701
Herkimer.....	61,407	128	12,539	44,635	10,304	19,963	34,141	92,457	2,365	15,232	63,154
Jefferson.....	85,521	145	6,285	23,379	5,131	10,664	17,751	44,415	2,682	7,199	31,782
Kings (Brooklyn Borough) <sup>2</sup> .....	2,738,175	7,851	235,634	857,477	196,205	369,517	623,083	1,530,186	45,032	229,632	1,178,730
Lewis.....	22,521	63	1,771	6,672	1,497	3,408	5,258	13,187	1,099	1,761	9,613
Livingston.....	40,257	60	2,926	9,642	2,321	4,588	6,877	18,305	668	3,262	12,103
Madison.....	46,214	67	2,395	8,477	1,926	3,829	6,253	13,861	544	2,583	9,993
Monroe.....	487,632	979	111,385	508,033	83,246	163,733	338,183	919,779	58,810	107,493	514,543
Montgomery.....	59,594	106	10,652	37,066	8,929	17,380	29,171	76,702	2,552	13,866	74,015
Nassau.....	672,765	1,143	69,327	336,733	49,115	97,528	220,187	554,901	12,086	25,845	115,467
New York (Manhattan Borough) <sup>2</sup> .....	1,960,101	25,404	523,432	2,061,173	397,286	731,268	1,279,763	3,761,244	55,451	554,701	3,446,847
Niagara.....	189,992	300	52,554	254,659	38,702	78,465	170,623	463,881	30,443	43,891	270,610
Oneida.....	222,855	375	30,402	123,558	23,699	46,000	87,869	235,749	7,826	35,743	169,831
Onondaga.....	341,719	568	57,440	242,617	40,630	81,596	157,002	478,545	24,942	54,563	275,257
Ontario.....	60,172	92	4,379	16,378	3,557	7,142	12,154	28,727	1,245	5,383	23,577
Orange.....	152,255	341	15,456	51,540	13,287	25,300	39,357	93,032	3,858	13,877	59,465
Orleans.....	29,832	52	2,216	7,301	1,900	3,939	5,565	18,046	853	2,306	9,375
Oswego.....	77,181	131	7,862	31,070	6,097	12,668	21,586	61,295	4,118	10,493	54,887
Otsego.....	50,763	74	1,775	5,242	1,442	2,666	3,664	8,391	599	1,332	5,062
Putnam.....	20,307	32	482	1,842	395	846	1,355	2,512	136	176	551
Queens (Queens Borough) <sup>2</sup> .....	1,550,849	2,772	125,788	519,008	99,197	195,525	352,784	944,623	30,023	97,013	582,269
Rensselaer.....	132,607	202	13,201	46,165	10,491	20,002	31,594	96,552	2,624	15,190	74,288
Richmond (Richmond Borough) <sup>2</sup> .....	191,555	202	10,515	44,326	8,235	15,659	31,740	112,382	4,923	10,620	94,817
Rockland.....	89,276	151	10,907	44,017	8,804	18,344	31,200	138,513	5,201	7,893	53,255
St. Lawrence.....	98,897	127	9,961	41,273	8,337	17,727	32,977	75,615	3,745	8,253	41,951
Saratoga.....	74,869	127	8,016	29,179	6,727	13,517	22,531	49,957	4,716	7,397	37,498
Schenectady.....	142,497	137	36,280	185,565	23,543	47,516	111,575	329,134	34,902	33,925	133,347
Schoharie.....	22,703	36	745	2,207	620	1,180	1,732	3,113	2,533	770	3,437
Schuyler.....	14,182	22	1,173	5,006	952	2,225	3,595	9,722	655	1,156	6,890
Seneca.....	29,253	34	3,141	13,356	2,399	5,108	9,292	26,870	2,504	2,665	10,798
Steuben.....	91,439	115	14,234	58,841	10,803	21,716	38,906	111,376	5,260	11,596	55,447
Suffolk.....	276,129	567	41,410	197,756	31,828	66,244	133,516	345,867	6,485	13,213	49,115
Sullivan.....	40,731	107	781	2,202	655	1,308	1,748	4,529	288	487	2,595
Tioga.....	30,166	48	1,515	4,540	1,190	2,280	3,150	8,274	284	1,185	4,833

See footnotes at end of table.



## MANUFACTURES—AREA STATISTICS

Table 3.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new, (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
Tompkins.....	59,122	70	4,504	16,805	3,820	7,593	13,336	29,985	1,388	4,728	21,827
Ulster.....	92,621	240	9,185	28,559	8,067	15,622	23,185	46,153	1,861	7,412	24,760
Warren.....	39,205	97	4,441	15,923	3,602	7,408	11,277	28,066	1,995	4,074	19,849
Washington.....	47,144	104	4,914	18,634	3,878	7,847	13,011	40,927	1,988	5,054	22,991
Wayne.....	57,323	111	5,838	20,664	4,548	9,456	13,686	38,135	2,984	4,501	23,454
Westchester.....	625,816	1,208	51,088	208,532	38,412	75,824	138,849	422,478	15,868	46,761	269,484
Wyoming.....	32,822	64	2,930	9,675	2,481	5,039	7,520	18,135	947	3,138	13,594
Yates.....	17,615	36	1,104	3,618	947	1,884	2,824	5,196	506	1,054	3,409
CITIES WITH 10,000 INHAB- ITANTS OR MORE											
Amsterdam.....	32,240	64	7,704	27,058	6,244	11,952	20,507	49,421	1,072	11,243	55,425
Auburn.....	36,722	80	6,553	25,957	5,149	10,027	18,964	41,636	1,501	9,281	42,321
Batavia.....	17,799	42	3,838	15,494	3,249	6,617	12,584	25,199	2,333	3,837	13,810
Beacon.....	14,012	36	2,957	10,641	2,596	5,144	8,649	16,177	409	2,617	10,659
Birmingham.....	80,674	146	13,719	52,470	10,356	20,072	34,707	93,179	4,143	11,191	49,610
Buffalo.....	580,132	1,139	87,993	395,678	66,192	132,868	273,485	707,917	35,397	87,279	511,953
Cohoes.....	21,272	50	2,969	10,190	2,523	(D)	(D)	707,917	(D)	4,193	19,381
Corning.....	17,684	20	7,298	(D)	4,844	10,470	20,552	62,364	3,502	6,253	25,175
Cortland City.....	18,152	54	3,942	12,736	3,352	6,701	9,853	26,883	450	4,395	23,415
Dunkirk.....	18,007	33	5,054	23,065	4,141	8,451	18,286	40,266	1,269	4,892	22,132
Elmira.....	49,716	67	10,188	40,652	8,396	16,868	32,188	90,115	2,557	11,958	57,011
Endicott.....	20,050	43	15,285	68,806	12,587	22,906	49,128	99,645	9,283	14,049	(D)
Floral Park.....	14,582	12	86	338	68	115	212	718	56	19	56
Freeport.....	24,680	75	1,161	4,089	992	1,984	3,288	6,597	252	913	3,397
Fulton.....	13,922	32	4,258	17,931	3,187	6,893	11,844	36,760	2,186	5,267	32,902
Garden City.....	14,486	23	9,029	43,529	5,651	10,880	29,099	73,315	798	5,473	(D)
Geneva.....	17,144	27	2,423	9,933	1,991	3,938	7,539	17,529	549	3,148	13,878
Glen Cove.....	15,130	44	1,843	6,934	1,375	2,790	4,709	12,183	483	1,450	6,092
Glens Falls.....	19,610	37	2,626	8,827	2,191	4,398	6,578	15,496	1,349	2,445	11,221
Gloversville.....	23,634	168	4,486	12,748	3,928	7,003	10,027	17,811	490	6,371	23,010
Hempstead.....	29,135	68	2,783	14,697	2,126	4,457	9,886	24,656	583	531	2,381
Hornell.....	15,049	25	1,104	3,398	930	1,721	2,377	8,671	191	943	4,703
Hudson.....	11,629	37	1,767	5,833	1,455	3,186	4,310	9,657	236	1,548	6,264
Ithaca.....	29,257	48	2,770	10,857	2,188	4,285	7,894	15,967	946	3,077	13,424
Jamestown.....	43,354	139	11,677	48,248	9,553	19,947	37,604	87,617	2,212	12,070	61,643
Johnson City.....	19,249	53	9,202	28,889	8,121	14,816	23,882	41,407	1,445	9,731	38,074
Johnstown.....	10,923	71	2,678	7,939	2,426	4,730	6,471	14,395	502	3,388	11,872
Kenmore.....	20,066	18	325	1,387	252	467	951	2,277	159	105	435
Kingston.....	28,817	95	3,987	11,906	3,430	6,442	9,095	17,072	728	4,125	13,572
Lackawanna.....	27,658	15	16,205	74,772	13,875	25,726	60,258	150,150	9,981	14,457	(D)
Lockport.....	25,133	67	8,636	38,734	6,930	14,231	29,161	71,587	6,410	7,872	40,433
Long Beach.....	15,586	16	333	1,017	291	532	776	1,419	26	(NA)	(NA)
Lynbrook.....	17,314	52	902	3,055	715	1,353	2,091	5,059	315	376	1,537
Mamaroneck.....	15,016	50	874	3,389	711	1,437	2,380	6,545	428	408	2,037
Massena.....	13,137	18	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Middletown.....	22,586	47	2,393	7,482	1,967	3,577	5,406	13,052	549	2,530	10,905
Mineola.....	14,831	80	2,715	12,162	2,289	4,542	9,309	23,216	655	1,051	4,465
Mount Vernon.....	71,899	259	8,728	32,984	6,964	13,067	22,715	53,893	1,723	6,390	25,129
Newark.....	10,295	18	980	4,449	755	1,674	2,966	8,155	713	(NA)	(NA)
Newburgh.....	31,956	142	6,558	22,503	5,580	10,522	16,970	41,009	671	6,130	26,639
New Rochelle.....	59,725	123	3,302	13,221	2,643	5,372	9,181	23,814	882	2,893	12,078
New York City <sup>2</sup> .....	7,891,957	37,943	947,847	3,666,827	743,913	1,393,848	2,419,787	6,671,465	143,685	933,289	5,497,163
Niagara Falls.....	90,872	116	23,477	115,186	17,333	35,033	78,444	242,488	17,316	25,239	167,446
North Tonawanda.....	24,731	67	8,606	39,255	6,762	13,624	27,913	70,182	3,937	8,912	55,368
Ogdensburg.....	16,166	25	1,285	(D)	1,133	(D)	(D)	(D)	(D)	1,036	3,240
Olean.....	22,884	48	4,988	21,635	3,569	7,055	13,622	34,721	1,118	4,525	26,589
Oneida.....	11,325	23	920	3,244	688	1,429	2,200	5,972	243	1,321	4,624
Oneonta.....	13,564	24	1,018	3,155	796	1,433	2,049	2,359	221	525	2,647
Ossining.....	16,098	30	842	3,145	677	1,307	2,257	5,808	155	1,016	4,334
Oswego.....	22,647	41	2,222	7,891	1,779	3,494	5,764	13,276	1,336	3,461	14,605
Peekskill.....	17,731	46	1,840	7,020	1,493	2,903	5,415	21,438	373	1,950	25,056
Plattsburgh.....	17,738	27	1,328	4,582	1,078	2,265	3,575	8,019	384	1,800	12,595
Port Chester.....	23,970	91	4,064	16,060	3,318	6,508	11,475	34,952	1,261	4,189	28,155
Poughkeepsie.....	41,023	113	15,494	76,892	10,976	23,113	48,435	127,466	5,757	10,355	53,342
Rensselaer.....	10,856	16	2,994	13,039	2,173	4,388	7,821	41,490	871	4,064	20,153
Rochester.....	332,488	856	104,851	482,073	77,959	152,871	319,248	878,559	50,765	102,430	490,640

See footnotes at end of table.

Table 3.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
Rockville Centre.....	22,362	30	270	1,086	207	450	760	2,149	57	393	2,120
Rome.....	41,682	57	7,299	32,756	5,667	10,992	23,368	61,706	1,889	9,836	54,747
Rye.....	11,721	11	92	371	76	148	273	718	8	(NA)	(NA)
Saratoga Springs.....	15,473	25	1,363	4,119	1,057	2,048	2,879	7,282	244	1,064	3,962
Scarsdale.....	13,156	7	43	182	29	57	127	297	4	28	(D)
Schenectady.....	91,785	102	23,952	(D)	14,875	(D)	(D)	(D)	(D)	33,010	128,165
Syracuse.....	220,583	406	29,772	120,929	22,867	46,242	86,398	205,735	7,722	35,264	167,310
Tonawanda.....	14,617	75	21,287	101,510	16,140	32,476	72,397	166,963	52,593	19,204	109,246
Troy.....	72,311	117	7,465	24,400	5,936	10,722	16,917	41,306	910	8,859	43,383
Valley Stream.....	26,854	52	693	2,730	580	1,217	1,993	4,134	104	134	(D)
Utica.....	101,531	181	15,002	57,598	11,124	22,136	37,681	122,648	3,614	15,801	69,957
Watertown.....	34,350	73	3,358	11,954	2,685	5,148	8,699	21,095	753	4,106	16,342
Watervliet.....	15,197	19	2,560	11,663	2,048	4,346	8,796	15,331	487	4,083	21,187
White Plains.....	43,466	80	2,591	9,717	2,064	3,891	6,447	26,138	649	2,433	14,419
Yonkers.....	152,798	282	12,402	49,961	9,471	19,101	34,087	90,117	5,392	15,956	80,221

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>The 1947 data are not strictly comparable with the figures shown for 1954 due to differences in coverage of loggers and fluid milk distributors. See discussion in Introduction and footnotes to Table 4.<sup>2</sup>New York City consists of Bronx, Kings, New York, Queens, and Richmond Counties.



## MANUFACTURES—AREA STATISTICS

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947

(For explanation of column captions see Introduction)

Ind. code	Industry	1954								1947			
		Establish- ments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
	All industries, total <sup>1</sup> ..	50,402	15,156	1,895,982	7,734,388	1,470,137	2,842,598	5,231,858	14,140,524	( <sup>2</sup> )	572,125	31,773,138	39,655,859
20	Food and kindred products.	3,812	1,125	152,442	630,736	104,697	213,897	382,801	1,365,436	( <sup>2</sup> )	61,414	( <sup>4</sup> )	( <sup>4</sup> )
201	Meat products.....	350	111	13,490	59,457	10,228	21,518	40,492	97,612	( <sup>2</sup> )	4,415	12,936	73,235
2011	Meat packing plants.....	106	37	6,590	29,140	4,965	10,660	20,337	46,186	( <sup>2</sup> )	2,400	7,211	43,089
2013	Prepared meats.....	188	61	5,820	27,082	4,358	9,126	17,631	45,756	( <sup>2</sup> )	1,626	5,583	29,656
2015	Poultry dressing plants.....	56	13	1,079	3,235	904	1,732	2,523	5,669	37,441	388	142	490
202	Dairy products.....	1,094	283	24,274	99,431	14,500	30,595	53,151	212,991	( <sup>2</sup> )	15,231	( <sup>4</sup> )	( <sup>4</sup> )
2021	Creamery butter.....	28	10	742	2,576	501	1,034	1,546	4,485	39,461	299	( <sup>4</sup> )	( <sup>4</sup> )
2022	Natural cheese.....	69	17	1,143	3,751	992	2,250	3,058	8,888	41,745	537	( <sup>4</sup> )	( <sup>4</sup> )
2023	Concentrated milk.....	26	13	757	2,791	622	1,417	2,122	8,305	33,860	730	( <sup>4</sup> )	( <sup>4</sup> )
2024	Ice cream and ices.....	133	55	4,412	18,810	2,483	4,991	8,977	48,856	100,060	3,898	( <sup>4</sup> )	( <sup>4</sup> )
2025	Special dairy products.....	30	7	571	2,158	428	850	1,329	5,283	13,453	301	( <sup>4</sup> )	( <sup>4</sup> )
2026	Fluid milk.....	243	24	2,271	8,762	1,547	3,221	5,341	22,481	93,483	1,455	( <sup>4</sup> )	( <sup>4</sup> )
2027	Fluid milk and other products.	565	157	14,375	60,581	7,924	16,829	30,777	114,690	456,167	8,008	( <sup>4</sup> )	( <sup>4</sup> )
203	Canned and frozen foods.....	347	152	15,934	48,303	14,104	29,226	37,843	113,711	( <sup>2</sup> )	6,261	14,908	68,701
2032	Cured fish.....	21	6	490	2,114	379	759	1,226	3,764	16,673	56	526	4,006
2033	Canned fruits and vegetables..	150	96	10,271	31,618	9,237	19,889	26,027	78,036	217,423	4,642	9,452	44,754
2035	Pickles and sauces.....	99	23	2,461	7,452	2,010	3,789	4,782	12,667	41,535	505	3,120	15,295
2036	Packaged seafood.....	19	5	405	1,443	361	700	1,128	2,887	11,022	171	...	...
2037	Frozen fruits and vegetables..	34	17	1,665	3,822	1,546	2,977	3,217	9,350	22,723	551	1,452	3,329
204	Grain mill products.....	151	60	9,238	44,874	6,949	15,360	31,841	113,102	( <sup>2</sup> )	4,272	10,182	125,374
2041	Flour and meal.....	24	10	2,282	11,942	1,874	4,335	9,647	26,901	215,546	815	2,577	47,341
2042	Prepared animal feeds.....	107	43	4,709	22,156	3,204	7,050	13,942	52,360	271,258	1,773	5,056	51,032
2043	Cereal breakfast foods.....	4	3	821	3,363	727	1,485	2,883	8,465	14,893	379	1,543	(D)
2045	Flour mixes.....	16	4	1,426	7,413	1,143	2,489	5,368	25,374	64,821	1,304	1,006	(D)
205	Bakery products.....	759	198	37,254	150,967	24,142	49,231	88,620	264,536	( <sup>2</sup> )	9,663	36,686	211,156
2051	Bread and related products....	720	186	30,460	127,076	18,251	38,177	68,914	193,839	370,808	8,628	29,480	(D)
2052	Biscuit and crackers.....	39	12	6,794	23,891	5,890	11,054	19,706	70,697	122,251	1,034	7,206	(D)
206	Sugar.....	5	5	3,815	16,696	2,923	5,600	11,979	29,519	192,053	2,822	3,671	22,008
2062	Cane-sugar refining.....	5	5	3,815	16,696	2,923	5,600	11,979	29,519	192,053	2,822	3,671	22,008
207	Candy and related products..	184	67	13,752	47,207	11,290	21,901	34,002	118,861	( <sup>2</sup> )	2,817	15,207	108,690
2071	Confectionery products.....	171	57	8,779	27,045	7,513	14,213	20,018	52,441	116,506	...	9,525	50,545
2072	Chocolate and cocoa products..	5	5	2,175	8,710	1,648	3,559	6,096	23,595	109,386	...	2,680	24,523
2073	Chewing gum.....	8	5	2,797	11,451	2,128	4,128	7,886	42,825	69,850	288	3,002	33,622
208	Beverages.....	386	114	20,836	106,812	11,253	20,700	52,714	240,547	( <sup>2</sup> )	8,997	20,409	158,338
2081	Bottled soft drinks.....	307	70	6,023	26,802	3,015	5,738	11,515	49,777	83,696	2,241	5,345	31,106
2082	Beer and ale.....	26	26	12,763	69,991	6,910	12,200	36,055	160,471	240,201	5,592	13,109	108,232
209	Miscellaneous foods.....	536	135	13,844	56,986	9,304	19,761	32,155	174,553	( <sup>2</sup> )	6,931	14,625	152,677
2091	Leavening compounds.....	5	3	531	2,447	362	690	1,615	7,020	10,860	218	630	(D)
2095	Flavorings.....	105	21	2,079	9,701	1,189	2,366	4,167	39,396	80,117	1,487	2,807	40,396
2097	Manufactured ice.....	64	13	968	3,764	551	1,911	2,932	7,487	9,198	137	1,770	11,530
2098	Macaroni and spaghetti.....	44	15	1,540	5,650	1,109	2,212	3,096	11,468	34,670	501	1,846	11,386
2099	Food preparations, n.e.c.....	303	81	8,058	32,059	5,652	11,700	18,258	93,930	385,749	3,524	6,731	(D)
21	Tobacco manufactures.....	105	11	1,377	3,493	1,195	2,209	2,884	7,630	( <sup>2</sup> )	126	2,208	7,527
22	Textile mill products.....	1,707	641	66,184	232,524	56,821	109,758	172,904	416,048	( <sup>2</sup> )	13,976	90,126	421,225
221	Woolen and worsted manufac- tures.....	53	25	5,391	20,252	4,619	9,266	14,972	32,948	( <sup>2</sup> )	1,950	10,227	47,298
2212	Yarn mills, wool, exc. carpet.	19	9	1,195	3,384	1,127	2,288	3,067	4,147	15,466	289	1,800	7,556
2213	Woolen and worsted fabrics....	23	10	3,770	15,030	3,118	6,225	10,561	25,906	48,444	1,475	7,901	37,148
222	Yarn and thread mills.....	65	22	2,372	7,625	1,898	3,311	4,894	11,542	( <sup>2</sup> )	477	3,461	13,907
2222	Yarn throwing mills.....	18	6	904	2,590	853	1,590	2,323	4,548	6,364	178	930	3,478
2223	Thread mills.....	30	11	907	3,478	533	697	1,212	5,359	17,625	108	452	3,277
2224	Yarn mills, cotton system.....	17	5	561	1,557	511	1,023	1,358	1,634	7,284	190	2,079	7,152
223	Broad-woven fabrics.....	70	14	1,549	5,785	1,339	2,562	4,018	11,941	( <sup>2</sup> )	225	6,144	30,650
2233	Cotton broad-woven fabrics....	29	2	284	963	259	542	808	2,570	5,625	62	3,201	12,938
2234	Synthetic broad-woven fabrics.	41	12	1,264	4,821	1,079	2,020	3,210	9,370	19,965	163	2,943	17,712
2241	Narrow fabric mills.....	107	23	2,537	9,940	2,091	4,393	6,758	14,058	28,671	446	2,351	11,888
225	Knitting mills.....	909	380	29,443	94,421	25,902	47,835	70,458	173,066	( <sup>2</sup> )	6,013	31,099	137,028
2251	Full-fashioned hosiery mills..	28	9	1,250	3,930	1,093	2,067	2,919	5,829	17,148	105	1,170	5,814
2253	Knit outerwear mills.....	655	276	18,779	61,165	16,561	30,006	44,966	115,868	287,525	4,112	14,909	72,084
2256	Knit fabric mills.....	144	50	4,013	15,264	3,459	7,284	11,615	31,403	94,418	1,504	3,535	19,018
2259	Knitting mills, n.e.c.....	23	3	272	900	237	450	661	1,767	3,733	20	360	(D)
2661	Finishing textiles exc. wool	212	72	6,075	24,579	5,320	11,127	19,357	41,463	64,830	866	8,020	40,372
227	Carpets and rugs.....	20	11	9,069	33,365	7,493	14,712	26,173	67,341	( <sup>2</sup> )	1,407	17,354	86,651
2271	Wool carpets and rugs.....	12	9	8,993	33,133	7,427	14,579	25,994	66,910	( <sup>2</sup> )	(D)	17,020	85,125
228	Hats, except cloth and mil- linery.....	77	27	1,387	4,749	1,228	2,381	3,575	7,535	( <sup>2</sup> )	58	2,943	13,548
2281	Fur-felt hats and hat bodies..	31	11	504	1,438	467	859	1,183	2,487	5,235	(D)	1,515	7,071

See footnotes at end of table.



Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947			
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)	
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
229	Textile mill products—Con.													
2292	Miscellaneous textile goods..	194	67	8,357	31,806	6,928	14,167	22,696	56,152	( <sup>2</sup> )	2,531	8,526	39,883	
2293	Lace goods.....	36	14	1,367	4,969	1,218	2,477	3,755	7,090	11,700	343	1,197	6,273	
2293	Padding and upholstery filling.	36	10	848	2,958	719	1,448	2,289	5,315	12,726	550	820	4,347	
2294	Processed textile waste.....	33	14	1,078	3,549	934	1,981	2,790	6,693	16,019	180	1,082	4,914	
2298	Cordage and twine.....	21	11	2,352	8,212	1,928	3,965	5,784	15,186	28,007	433	2,994	12,993	
2299	Textile goods, n.e.c.....	28	6	444	1,693	369	731	1,065	3,290	10,943	52	62	(D)	
23	Apparel and related products.....	16,053	5,716	379,925	1,203,146	332,417	579,458	905,524	2,012,415	( <sup>2</sup> )	16,066	380,873	1,998,314	
231	Men's and boys' suits and coats.....	596	237	35,034	123,498	31,280	56,189	99,008	186,871	( <sup>2</sup> )	611	49,446	260,306	
2311	Men's and boys' suits and coats	537	217	33,969	120,142	30,346	54,546	96,468	181,358	407,562	588	47,788	252,363	
2312	Suit and coat findings.....	59	20	1,064	3,355	933	1,643	2,540	5,513	13,544	22	1,658	7,943	
232	Men's and boys' furnishings..	1,268	428	34,545	101,713	29,784	50,632	71,712	167,769	( <sup>2</sup> )	1,367	33,986	164,494	
2321	Men's dress shirts & nightwear.	288	117	12,421	35,751	10,303	17,069	22,570	61,226	242,595	471	11,164	57,868	
2323	Men's and boys' neckwear.....	215	66	4,443	14,913	3,721	6,526	10,135	25,288	56,936	105	5,403	30,731	
2325	Men's and boys' cloth hats.....	194	38	2,669	7,739	2,482	4,707	6,740	11,796	20,528	68	1,625	7,934	
2326	Hat and cap materials.....	53	10	802	2,527	679	1,191	1,833	4,007	8,358	19	925	4,580	
2327	Separate trousers.....	250	79	5,037	14,616	4,529	7,407	11,372	25,886	73,883	183	7,299	34,689	
2329	Men's and boys' clothing, nec..	247	106	8,356	24,270	7,336	12,665	17,851	37,314	95,169	502	6,582	25,134	
233	Women's and misses' outerwear.....	6,000	2,893	156,080	518,079	136,539	234,275	392,000	867,522	( <sup>2</sup> )	5,644	152,470	855,597	
2331	Blouses.....	667	303	16,632	43,822	14,706	24,562	32,620	81,920	226,952	1,048	15,638	67,921	
2333	Dresses, unit price.....	2,660	1,547	77,782	256,237	69,083	117,458	200,407	418,667	1,024,260	2,353	78,041	415,153	
2334	Dresses, dozen price.....	245	103	6,861	19,285	5,885	10,368	13,037	34,708	104,784	244	6,117	25,471	
2337	Women's suits, coats and skirts	1,999	787	45,983	173,305	39,063	68,664	127,687	289,715	779,515	1,444	45,974	312,479	
2338	Women's neckwear and scarfs....	102	20	1,402	5,474	1,172	1,924	3,011	8,468	24,088	55	2,352	15,501	
2339	Women's outerwear, n.e.c.....	327	133	7,418	19,953	6,628	11,296	15,236	34,042	84,248	498	4,348	19,072	
234	Women's undergarments.....	1,007	484	37,200	104,535	32,501	57,405	74,982	191,018	( <sup>2</sup> )	2,383	35,738	172,998	
2341	Women's & children's underwear.	778	352	24,374	66,399	21,601	38,201	48,835	123,710	380,382	1,550	22,750	115,785	
2342	Corsets and allied garments....	229	132	12,826	38,136	10,900	19,204	26,146	67,308	145,774	833	12,988	57,213	
2351	Millinery.....	644	196	12,753	44,761	11,488	21,054	36,293	69,689	121,360	306	13,416	71,358	
236	Children's outerwear.....	1,032	459	28,626	83,057	24,965	43,744	61,001	145,038	( <sup>2</sup> )	1,434	20,919	99,353	
2361	Children's dresses.....	318	164	9,899	28,110	8,509	14,909	19,335	51,066	143,183	387	7,827	35,235	
2363	Children's coats.....	244	108	6,128	22,209	5,215	9,050	16,591	38,577	100,849	197	6,608	36,925	
2369	Children's outerwear, n.e.c.....	470	187	12,598	32,738	11,241	19,785	25,074	55,394	140,626	850	6,484	27,193	
2371	Fur goods.....	1,755	60	9,158	39,907	7,360	12,800	31,755	68,934	213,558	349	14,371	112,707	
238	Miscellaneous apparel.....	985	368	24,179	67,686	21,269	36,507	50,112	116,171	( <sup>2</sup> )	976	22,284	98,357	
2381	Fabric dress gloves.....	82	33	2,855	6,744	2,577	4,392	5,323	10,797	24,710	83	3,565	10,503	
2384	Robes and dressing gowns.....	219	88	5,157	14,584	4,616	7,581	10,698	25,498	68,348	137	4,949	24,669	
2385	Waterproof outer garments.....	157	78	4,824	13,568	4,349	7,474	10,534	24,597	55,863	229	3,551	16,557	
2386	Leather & sheep-lined clothing.	38	14	849	2,425	734	1,272	1,928	4,023	10,144	75	491	2,226	
2387	Belts.....	332	105	7,271	21,300	6,249	11,227	15,537	35,143	63,654	314	5,910	25,716	
2388	Handkerchiefs.....	61	20	1,423	3,642	1,200	1,786	2,135	7,823	24,021	36	1,702	9,701	
2389	Apparel, n.e.c.....	57	19	1,064	3,518	902	1,703	2,518	5,179	8,850	78	1,018	3,962	
239	Fabricated textiles, n.e.c....	2,766	591	42,347	119,908	37,226	66,848	88,658	199,399	( <sup>2</sup> )	2,993	38,243	163,144	
2391	Curtains and draperies.....	242	62	4,063	11,561	3,616	6,879	8,613	20,534	57,732	225	2,532	11,613	
2392	Housefurnishings, n.e.c.....	488	120	9,013	26,446	7,766	14,283	18,007	48,412	126,003	575	6,431	30,451	
2393	Textile bags.....	71	17	1,683	5,025	1,410	2,693	3,613	6,887	27,306	198	1,578	6,217	
2394	Canvas products.....	160	21	1,513	4,413	1,232	2,262	3,018	7,084	15,118	136	1,269	5,154	
2395	Tucking, pleating & stitching..	311	64	4,495	13,049	4,169	7,551	10,823	20,771	25,842	433	3,463	14,125	
2396	Trimings and art goods.....	586	125	8,808	24,238	7,528	13,262	16,964	40,428	86,362	460	8,951	37,423	
2397	Schiffli-machine embroideries..	67	9	702	2,103	625	1,157	1,506	3,878	7,937	16	1,306	6,273	
2398	Embroideries, except schiffli..	520	107	7,364	18,688	6,804	10,993	15,384	27,653	37,057	359	7,083	25,752	
2399	Textile products, n.e.c.....	321	66	4,703	14,292	4,074	7,764	10,728	23,749	45,258	587	5,630	26,136	
24	Lumber and wood products...	1,471	218	17,872	59,267	15,250	31,047	44,367	92,459	( <sup>2</sup> )	4,567	( <sup>4</sup> )	( <sup>4</sup> )	
2411	Logging camps and contractors	181	8	901	2,663	806	1,661	2,325	5,116	9,116	430	( <sup>4</sup> )	( <sup>4</sup> )	
242	Lumber and basic products....	416	52	4,203	12,090	3,787	8,138	10,311	18,323	( <sup>2</sup> )	1,249	3,517	13,463	
2421	Sawmills and planing mills.....	404	47	3,901	11,201	3,507	7,523	9,541	17,113	36,541	(D)	3,451	(D)	
2422	Veneer mills.....	7	5	258	776	241	526	693	1,057	2,155	(D)	(D)	(D)	
243	Millwork and related products	307	64	5,488	22,461	4,308	8,531	15,015	31,873	( <sup>2</sup> )	873	4,144	19,354	
2431	Millwork plants.....	287	51	4,089	17,009	3,105	6,262	11,416	23,834	51,460	530	2,899	14,462	
244	Wooden containers.....	146	27	2,082	6,316	1,821	3,596	4,820	10,185	( <sup>2</sup> )	360	3,304	12,352	
2442	Rattan and willow ware.....	25	5	502	1,422	449	917	1,220	2,364	5,509	116	422	1,709	
2444	Wooden boxes.....	88	14	1,064	3,495	902	1,719	2,501	5,822	11,787	202	1,827	7,226	
249	Miscellaneous wood products..	421	67	5,198	15,735	4,526	9,120	11,893	26,961	( <sup>2</sup> )	1,653	5,992	24,252	
2491	Wood preserving.....	6	4	125	433	108	201	291	1,040	3,032	(D)	155	(D)	
2492	Lasts and related products.....	11	5	304	1,274	261	523	946	2,035	3,158	28	470	(D)	
2493	Mirror and picture frames.....	136	12	1,040	3,339	877	1,761	2,360	5,863	10,260	35	874	3,889	
2499	Wood products, n.e.c.....	268	46	3,728	10,688	3,278	6,634	8,296	18,021	32,389	(D)	4,493	17,428	

See footnotes at end of table.

## MANUFACTURES—AREA STATISTICS

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry	1954										1947	
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
25	Furniture and fixtures.....	1,791	406	38,158	146,707	31,581	62,547	108,981	250,320	(2)	6,011	37,389	186,159
251	Household furniture.....	1,095	263	22,956	85,778	19,270	37,422	63,458	140,649	(2)	3,237	22,742	107,988
2511	Wood furniture, not upholstered	425	110	10,042	35,560	8,718	17,438	28,040	55,881	101,158	1,447	10,679	45,433
2512	Upholstered household furniture	324	66	6,170	24,911	5,146	9,555	18,214	41,234	77,091	328	5,600	28,480
2514	Metal household furniture.....	156	53	3,825	14,388	3,183	6,307	10,336	24,665	48,907	765	2,829	15,510
252	Office furniture.....	57	27	4,734	18,115	3,835	8,017	14,202	38,047	(2)	1,000	5,233	30,614
2521	Wood office furniture.....	33	11	1,398	5,575	1,188	2,534	4,362	8,143	15,396	133	1,818	8,191
2522	Metal office furniture.....	24	16	3,336	12,540	2,646	5,482	9,840	29,904	44,532	866	3,415	22,423
253	Public and professional furniture.....	44	19	2,125	8,512	1,742	3,557	6,241	15,098	(2)	376	1,244	6,423
2531	Public-building furniture.....	25	9	893	3,458	728	1,459	2,624	6,422	9,417	124	637	3,592
2532	Professional furniture.....	19	10	1,231	5,053	1,013	2,098	3,617	8,675	15,266	252	607	2,831
2541	Partitions and fixtures.....	361	74	5,852	25,735	4,784	9,689	19,508	41,548	73,489	1,063	4,937	28,134
256	Screens, shades, and blinds..	190	20	2,052	6,966	1,576	3,122	4,407	12,896	(2)	289	2,594	10,024
2561	Window and door screens.....	13	1	111	366	90	183	270	751	1,660	19	(D)	(D)
2562	Window shades.....	46	8	1,155	4,174	887	1,780	2,653	7,481	15,834	194	1,585	5,574
2563	Venetian blinds.....	131	11	785	2,425	598	1,158	1,483	4,663	13,114	76	(D)	(D)
259	Furniture and fixtures, n.e.c.....	44	3	437	1,600	372	737	1,162	2,080	(2)	45	639	2,976
26	Pulp, paper and products...	1,028	531	64,671	262,842	53,652	113,506	194,601	476,173	(2)	30,235	64,369	368,998
261	Pulp, paper and board.....	121	105	16,704	74,197	14,388	32,956	60,930	134,569	(2)	14,630	17,860	111,082
2611	Pulp mills.....	29	17	2,440	10,020	2,214	5,005	8,764	15,810	47,894	2,419	3,061	17,081
2612	Paper and paper board mills...	87	83	13,514	60,884	11,569	26,674	49,619	112,291	198,472	11,704	14,799	94,001
2613	Building paper and board mills.	5	5	749	3,292	604	1,275	2,546	6,468	12,758	506		
2461	Paper coating and glazing....	60	15	1,818	7,490	1,517	3,218	5,179	15,371	39,355	(D)	1,190	7,334
2651	Envelopes.....	40	25	2,448	10,418	2,016	4,373	7,140	15,836	32,694	(D)	2,158	12,417
2661	Paper bags.....	91	35	3,644	13,887	2,882	5,984	9,049	25,069	61,151	2,185	3,973	20,539
267	Paperboard containers.....	383	218	20,862	80,842	17,374	35,110	58,297	134,158	(2)	4,958	21,005	112,600
2671	Paperboard boxes.....	361	209	20,019	77,717	16,656	33,635	56,089	128,377	270,977	4,817	20,344	109,539
2674	Fiber cans, tubes, drums, etc..	22	9	843	3,125	718	1,474	2,208	5,780	10,484	141	661	3,061
269	Pulp, paper and products, n.e.c.....	333	133	19,193	76,006	15,473	31,863	54,002	151,169	(2)	6,919	18,183	105,026
2691	Die-cut paper and board.....	113	35	4,266	16,435	3,477	6,718	11,773	38,635	69,074	581	3,701	24,203
2699	Paper and board products, nec..	190	84	13,252	52,572	10,605	22,157	36,888	100,637	235,680	5,694	12,647	68,673
27	Printing and publishing....	5,839	1,238	168,091	825,334	93,564	176,402	410,998	1,583,450	(2)	34,341	166,125	1,133,621
2711	Newspapers.....	561	124	34,120	177,424	17,559	30,516	87,666	293,458	428,496	5,701	32,436	207,341
2721	Periodicals.....	577	140	26,831	151,492	4,346	7,556	18,230	413,864	780,523	3,827	25,747	280,318
273	Books.....	502	121	21,217	94,017	6,587	12,787	26,568	237,100	(2)	3,859	25,760	168,993
2731	Books; publishing and printing.	333	83	15,929	68,879	2,150	3,987	7,193	200,075	337,385	2,840	21,830	146,478
2732	Book printing.....	169	38	5,287	25,137	4,436	8,799	19,374	37,024	58,042	1,018	3,930	22,515
2741	Miscellaneous publishing.....	315	42	5,870	26,330	1,025	1,873	3,690	55,249	74,508	977	4,380	31,468
2751	Commercial printing.....	2,164	330	31,756	146,699	25,613	48,947	107,434	234,972	38,010	8,480	32,577	193,027
2761	Lithographing.....	535	137	15,738	82,098	12,435	24,521	59,160	131,338	213,736	5,961	12,218	80,616
2771	Greeting cards.....	108	37	5,724	19,852	4,315	8,181	12,738	37,187	67,142	688	5,116	22,272
278	Bookbinding and related industries.....	473	139	12,943	45,311	11,376	21,958	35,396	68,567	(2)	1,953	14,734	64,848
2781	Bookbinding.....	254	73	7,311	25,772	6,631	12,620	21,320	36,021	47,223	1,347	8,688	38,624
2782	Blankbooks and paper ruling...	92	19	1,858	6,221	1,563	3,002	4,503	10,646	17,122	198	2,962	13,969
2783	Loose-leaf binders and devices.	47	19	2,314	8,375	1,867	3,682	5,687	14,420	22,619	285	1,430	5,874
2789	Miscellaneous bookbinding work.	80	28	1,459	4,943	1,313	2,653	3,885	7,479	9,318	121	1,654	6,381
279	Printing trade services.....	604	168	13,888	82,109	10,305	20,060	60,112	111,712	(2)	2,891	13,157	84,738
2791	Typesetting.....	285	64	4,727	24,291	3,801	7,407	18,686	34,504	39,389	1,055	3,807	22,550
2792	Engraving and plate printing...	129	8	2,075	8,472	1,698	3,176	6,865	12,088	17,004	471	2,764	13,377
2793	Photoengraving.....	141	68	4,811	34,886	3,354	6,493	25,735	44,587	50,786	961	4,736	35,108
2794	Electrotyping and stereotyping.	49	28	2,258	14,444	1,430	2,964	8,807	20,516	25,387	386	1,850	13,703
28	Chemicals and products.....	1,407	367	67,752	306,904	46,393	94,579	178,121	872,140	(2)	43,032	67,366	585,020
281	Inorganic chemicals.....	42	19	6,587	31,978	4,701	9,750	20,914	75,175	(2)	11,298	5,959	35,473
282	Organic chemicals.....	84	50	15,130	76,364	10,801	21,540	47,073	163,069	(2)	14,113	15,425	115,871
2822	Intermediate and organic colors	15	7	3,171	15,204	2,281	4,584	9,414	29,702	55,516	(D)	(NA)	(NA)
2823	Plastics materials.....	25	17	4,319	22,562	2,987	6,185	13,584	57,636	102,844	5,565	2,034	20,974
2829	Organic chemicals, n.e.c.....	37	22	5,241	27,687	3,576	7,052	15,986	58,956	112,733	3,892	(NA)	(NA)
283	Drugs and medicines.....	269	74	19,510	85,997	13,042	27,333	48,763	327,882	(2)	8,550	15,156	134,819
2833	Medicinal chemicals.....	23	6	1,505	8,226	908	1,960	3,832	19,864	29,680	(D)	2,056	(D)
2834	Pharmaceutical preparations....	239	66	17,926	77,480	12,071	25,249	44,749	307,102	438,027	7,400	12,918	105,107
284	Soap and related products....	207	31	4,030	17,158	2,730	5,212	10,000	71,396	(2)	861	5,369	76,338
2842	Cleaning and polishing products	165	24	2,494	9,498	1,698	3,240	5,124	32,628	63,942	505	2,526	27,711
285	Paints and allied products...	215	59	6,212	29,693	4,089	8,365	15,324	69,481	(2)	1,313	7,043	66,223
2851	Paints and varnishes.....	191	51	4,810	23,031	3,099	6,288	11,379	54,323	123,163	953	6,023	60,256
2852	Inorganic color pigments.....	12	5	1,278	6,036	912	1,926	3,676	14,244	33,352	(D)	960	5,357

See footnotes at end of table.



Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954										1947	
		Establishments, number		All employees		Production workers			Value added by manufacture	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
2853	Chemical and products—Con. Whiting and fillers.....	12	3	124	626	77	150	268	913	2,152	(D)	60	(D)
287	Fertilizers.....	25	9	558	2,091	433	928	1,447	4,722	( <sup>2</sup> )	483	...	...
288	Vegetables and animal oils...	38	17	1,551	7,163	1,254	2,859	5,417	15,182	( <sup>2</sup> )	1,932	2,128	33,747
2886	Grease and tallow.....	32	12	1,297	5,912	1,024	2,295	4,366	10,629	28,585	700	1,439	22,926
289	Chemical products, n.e.c.....	519	108	14,126	56,300	9,307	18,523	29,088	144,970	( <sup>2</sup> )	4,448	15,714	119,624
2891	Printing ink.....	50	12	1,147	5,570	695	1,387	2,558	8,959	17,567	470	1,458	12,003
2893	Toilet preparations.....	207	45	7,628	28,642	5,286	10,491	15,050	79,403	128,121	1,591	7,783	50,975
2894	Glue and gelatin.....	42	13	1,062	4,452	734	1,445	2,573	9,040	21,125	435	682	6,818
2896	Compressed and liquefied gases.	18	8	470	2,003	301	642	1,206	5,364	7,150	(D)	386	(D)
2898	Salt.....	7	4	707	2,743	594	1,385	2,103	8,734	13,398	938	917	4,060
2899	Chemical products, n.e.c.....	166	21	2,381	9,369	1,371	2,498	4,327	29,635	52,936	385	3,366	34,590
29	Petroleum and coal products	104	31	5,746	27,911	4,530	8,752	20,179	48,801	( <sup>2</sup> )	5,791	7,576	59,594
2911	Petroleum refining.....	12	8	2,322	12,409	1,779	3,408	9,032	17,078	156,432	2,987	3,156	28,241
295	Paving and roofing materials.	61	14	1,158	5,326	790	1,590	3,058	13,765	( <sup>2</sup> )	985	870	(D)
2951	Paving mixtures and blocks.....	52	8	666	3,246	431	868	1,711	9,897	22,434	905	335	(D)
2952	Roofing felts and coatings.....	9	6	492	2,080	359	722	1,346	3,868	10,538	79	535	4,996
2992	Lubricants, n.e.c.....	25	3	267	1,207	160	316	583	2,312	6,312	70	250	944
30	Rubber products.....	113	33	9,891	40,491	7,757	15,303	28,838	68,566	( <sup>2</sup> )	4,492	8,764	46,909
3099	Rubber industries, n.e.c.....	106	26	6,959	27,852	5,199	10,364	18,556	49,416	86,543	1,928	5,217	25,300
31	Leather and leather goods..	1,673	565	61,364	181,879	55,260	102,581	148,658	274,670	( <sup>2</sup> )	3,623	68,997	290,804
3111	Leather tanning and finishing	118	29	4,370	16,234	3,903	7,271	13,654	29,246	85,523	487	4,819	46,646
3121	Industrial leather belting...	23	3	360	868	260	548	845	1,285	2,523	24	319	1,728
3131	Footwear cut stock.....	84	32	2,488	7,175	2,255	4,161	5,963	11,028	30,903	206	2,553	11,020
341	Footwear, except rubber.....	286	186	27,659	84,843	25,000	45,257	71,026	119,481	( <sup>2</sup> )	1,909	33,743	128,718
3141	Footwear except rubber.....	207	143	23,127	71,919	21,025	38,442	61,209	99,788	209,095	1,609	29,874	113,025
3142	House slippers.....	79	43	4,531	12,923	3,974	6,814	9,817	19,692	40,449	299	3,869	15,693
315	Leather gloves.....	123	38	3,359	7,418	3,006	4,874	5,833	10,117	( <sup>2</sup> )	39	6,618	18,335
3151	Leather dress gloves.....	111	37	3,251	7,189	2,914	4,712	5,647	9,759	21,184	37	6,482	17,958
3152	Leather work gloves.....	12	1	108	229	92	162	186	357	659	2	136	377
3161	Luggage.....	212	54	4,323	12,719	3,916	7,524	10,025	20,946	43,806	154	3,854	16,221
317	Purses & small leather goods.	654	193	16,421	45,515	14,840	29,009	36,005	70,524	( <sup>2</sup> )	687	14,535	57,861
3171	Handbags and purses.....	510	162	13,845	38,766	12,520	24,566	30,720	59,646	125,810	511	12,561	51,194
3172	Small leather goods.....	144	31	2,575	6,749	2,319	4,443	5,285	10,878	21,729	175	1,974	6,667
319	Miscellaneous leather goods..	173	30	2,382	7,105	2,078	3,935	5,304	12,041	( <sup>2</sup> )	112	2,556	10,275
32	Stone, clay, and glass products.....	995	224	39,140	167,209	30,656	62,487	116,764	316,646	( <sup>2</sup> )	27,196	39,216	209,104
322	Pressed and blown glassware..	55	15	9,167	42,347	6,654	14,095	27,345	72,735	( <sup>2</sup> )	3,233	(D)	(D)
325	Structural clay products.....	26	18	1,805	7,436	1,637	3,306	6,325	10,656	( <sup>2</sup> )	578	(D)	(D)
326	Pottery and related products.	75	14	3,780	13,451	3,210	6,234	10,090	20,278	( <sup>2</sup> )	892	4,878	19,485
3262	Vitreous-china food utensils...	5	4	2,022	6,518	1,739	3,380	4,976	9,334	11,321	194	(D)	(D)
3264	Porcelain electrical supplies..	7	4	1,329	5,797	1,099	2,164	4,268	9,028	13,513	641	1,723	8,354
3269	Pottery products, n.e.c.....	44	3	249	634	213	359	444	1,094	1,808	35	284	891
327	Concrete and plaster products	312	65	5,795	24,882	4,639	10,097	18,167	54,290	( <sup>2</sup> )	3,648	4,159	27,849
3271	Concrete products.....	288	50	3,369	13,865	2,544	5,354	9,164	24,116	46,785	2,234	2,322	11,075
3272	Gypsum products.....	12	10	2,150	10,053	1,858	4,255	8,336	28,792	50,708	1,209	1,482	15,453
3274	Lime.....	7	2	101	271	93	188	245	547	1,130	(D)	72	(D)
3275	Mineral wool.....	5	3	174	692	143	299	422	833	1,863	(D)	283	(D)
329	Nonmetallic mineral products, n.e.c.....	153	48	11,768	53,137	8,744	17,153	35,165	106,394	( <sup>2</sup> )	4,331	12,471	78,539
3291	Abrasive products.....	51	17	7,680	35,851	5,426	10,404	22,707	73,120	121,267	2,521	7,669	49,598
3292	Asbestos products.....	8	4	1,503	6,552	1,264	2,684	5,099	14,039	36,235	(D)	1,121	5,847
3293	Gaskets & asbestos insulations.	31	9	563	2,371	451	891	1,569	3,435	6,704	144	1,791	12,029
3295	Minerals: ground or treated...	16	8	432	1,839	378	763	1,458	4,365	6,175	297	632	5,003
3298	Statuary and art goods.....	35	4	275	918	213	423	558	1,552	2,179	14	301	1,101
33	Primary metal industries...	494	245	74,418	338,328	61,671	120,652	262,784	608,616	( <sup>2</sup> )	29,667	77,490	369,908
331	Blast furnaces and steel mills.....	22	22	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3312	Blast furnaces and steel mills.	18	18	28,763	132,746	24,674	46,735	107,916	256,402	( <sup>2</sup> )	11,228	28,432	118,338
332	Iron and steel foundries.....	98	73	9,743	41,993	8,236	16,314	32,906	60,764	( <sup>2</sup> )	2,001	14,215	59,856
3321	Gray-iron foundries.....	78	55	5,212	21,265	4,601	9,152	17,531	30,334	45,289	1,108	8,109	35,214
333	Primary nonferrous metals....	11	5	3,362	15,497	2,811	5,795	12,439	38,160	( <sup>2</sup> )	942	(D)	(D)
3341	Secondary nonferrous metals..	60	14	1,425	6,633	1,093	2,287	4,287	10,021	82,906	819	1,427	9,470
335	Nonferrous rolling and drawing.....	26	15	7,826	34,963	6,506	12,876	27,592	76,362	( <sup>2</sup> )	2,182	9,445	61,742

See footnotes at end of table.



## MANUFACTURES—AREA STATISTICS

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manufacture	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
3351	Primary metal industries—Con. Copper rolling and drawing....	7	7	4,014	17,757	3,389	6,361	14,008	43,593	166,136	772	6,767	43,616
3361	Nonferrous foundries.....	180	64	6,759	29,811	5,651	11,463	22,907	40,285	72,353	2,225	7,181	31,501
339	Primary metal industries, n.e.c.....	97	52	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	10,188	49,297
3399	Primary metal industries, nec.	50	16	2,885	13,680	2,479	5,024	10,929	17,877	49,577	921	1,005	6,651
34	Fabricated metal products.	3,387	914	98,360	408,926	79,857	160,640	291,367	694,884	(2)	27,537	88,382	458,260
3411	Tin cans and other tinware..	34	16	4,171	16,902	3,645	7,313	13,670	29,141	72,384	4,294	4,450	20,076
342	Cutlery, tools, and hardware	290	97	12,779	48,701	10,487	20,978	34,478	87,715	(2)	3,088	16,602	80,858
3421	Cutlery.....	38	19	4,527	16,608	3,695	7,323	11,596	32,387	49,013	619	5,856	28,438
3422	Edge tools.....	38	11	657	2,689	569	1,133	2,023	4,699	6,366	72	478	2,252
3423	Hand tools, n.e.c.....	51	15	2,603	10,112	2,113	4,064	7,367	17,723	28,711	805	5,116	25,108
3425	Hand saws and saw blades.....	15	7	608	2,482	516	1,032	1,744	4,340	6,739	169	701	(D)
3429	Hardware, n.e.c.....	138	45	4,328	16,606	3,543	7,323	11,572	28,205	48,527	1,412	4,407	21,185
343	Heating and plumbing equipment.....	166	57	7,877	33,473	6,148	11,924	23,274	57,055	(2)	1,898	9,218	49,012
344	Structural metal products...	900	272	27,237	130,833	21,026	43,056	91,259	222,257	(2)	6,338	19,910	112,094
3441	Structural and ornamental work	386	106	9,268	45,021	7,109	14,374	31,263	79,044	144,869	2,186	7,471	43,186
3442	Metal doors, sash, and trim...	195	73	7,638	35,841	6,008	12,421	25,308	59,946	105,868	1,282	3,476	19,848
3443	Boiler shop products.....	81	30	5,455	26,668	4,093	8,557	18,650	48,123	89,926	1,593	3,758	19,230
3444	Sheet-metal work.....	238	63	4,875	23,301	3,815	7,703	16,037	35,142	55,082	1,276	5,205	29,830
346	Metal stamping and coating..	927	197	21,746	83,980	18,423	37,395	62,407	137,024	(2)	4,505	13,500	90,030
3463	Metal stampings.....	341	100	13,463	55,059	11,252	23,041	40,280	91,009	159,979	2,700	12,481	63,644
3466	Galvanizing.....	11	4	583	2,134	488	1,038	1,568	3,024	4,564	134	168	560
3467	Engraving on metal.....	68	8	923	3,394	774	1,571	2,514	4,555	6,338	151	1,166	5,578
3468	Plating and polishing.....	426	73	5,730	19,978	5,017	10,011	15,548	32,897	43,809	1,298	3,747	16,492
3471	Lighting fixtures.....	405	94	8,004	28,966	6,506	12,660	19,972	53,847	108,530	990	7,239	43,075
348	Fabricated wire products....	204	68	5,920	21,687	5,026	9,708	15,938	36,313	(2)	1,917	4,860	20,414
3481	Nails and spikes.....	11	4	191	719	162	356	468	1,214	2,303	36	275	1,005
3489	Wirework, n.e.c.....	193	64	5,729	20,968	4,864	9,352	15,470	35,099	59,604	1,881	4,585	19,409
349	Metal products, n.e.c.....	461	113	10,623	44,383	8,592	17,603	30,366	71,529	(2)	4,504	7,603	42,701
3493	Steel springs.....	8	4	516	2,413	426	830	1,841	3,706	9,253	(D)	341	2,187
3494	Bolts, nuts, washers, & rivets	30	12	2,970	13,794	2,215	4,618	8,470	21,853	40,593	1,325	2,100	15,331
3495	Screw machine products.....	172	41	2,745	11,332	2,359	4,981	8,589	17,711	30,672	1,051	2,152	10,156
3497	Metal foil.....	14	4	599	2,582	504	1,007	1,805	4,393	14,651	257	740	3,425
3499	Fabricated metal prod., n.e.c.	227	46	3,314	12,353	2,652	5,262	8,068	20,072	38,485	1,502	1,414	7,375
35	Machinery, except electrical.....	2,580	651	142,549	663,586	106,346	215,798	449,493	1,169,041	(2)	66,682	137,940	687,471
351	Engines and turbines.....	10	5	11,199	59,279	8,615	17,893	45,043	120,647	(2)	(D)	7,766	26,662
352	Tractors and farm machinery.	46	21	3,705	16,262	2,562	5,086	10,473	25,043	(2)	1,158	8,899	40,776
3521	Tractors.....	4	2	179	607	147	270	494	1,033	2,586	56	(D)	(D)
3522	Farm machinery (exc. tractors)	42	19	3,525	15,655	2,415	4,815	9,979	24,010	38,736	1,101	8,678	(D)
353	Construction and mining machinery.....	29	15	1,210	5,233	869	1,727	3,340	9,519	16,191	420	1,724	11,086
3531	Construction & mining mach....	29	15	1,210	5,233	869	1,727	3,340	9,519	16,191	420	1,724	11,086
354	Metal working machinery....	699	126	17,645	85,383	13,901	29,224	61,953	145,313	(2)	8,494	14,759	71,647
3541	Machine tools.....	56	23	5,105	26,257	4,162	8,884	19,819	45,457	61,186	3,813	4,230	22,057
3542	Metalworking machinery.....	54	22	5,483	25,446	3,885	7,749	16,481	48,359	75,993	1,607	5,568	24,553
3544	Special dies and tools.....	487	65	5,738	27,911	4,830	10,485	21,891	42,923	54,750	2,508	4,961	25,037
3545	Metalworking mach. attachments	102	16	1,318	5,768	1,022	2,104	3,760	8,572	13,360	565		
355	Special-industry machinery, n.e.c.....	394	130	17,106	79,764	12,828	25,533	52,416	126,522	(2)	3,165	28,068	136,930
3551	Food-products machinery.....	82	30	2,732	11,975	2,032	4,106	7,648	20,420	32,058	500	6,219	31,629
3552	Textile machinery.....	50	12	906	3,672	680	1,296	2,391	5,999	8,655	100	2,054	11,094
3553	Woodworking machinery.....	12	7	271	1,263	183	362	679	1,568	2,273	17	869	3,798
3554	Paper-industries machinery....	36	21	2,782	13,234	2,052	4,344	8,397	18,255	28,313	352	3,861	16,440
3555	Printing-trades machinery.....	84	23	6,643	31,594	5,220	10,058	22,303	52,116	71,905	1,321	7,897	42,357
3559	Special-industry mach., n.e.c.	130	37	3,771	18,025	2,658	5,364	10,995	28,162	47,750	873	7,168	31,612
356	General industrial machinery.....	225	101	25,644	118,489	17,179	34,089	71,562	193,328	(2)	19,539	22,788	138,236
3561	Pumps and compressors.....	31	17	9,190	39,813	6,532	12,696	26,000	74,592	130,940	2,124	7,940	47,548
3562	Elevators and escalators.....	14	8	2,837	13,817	2,100	4,196	10,166	23,019	35,212	316	2,835	24,137
3563	Conveyors.....	29	12	1,669	7,624	1,115	2,243	4,408	14,740	23,912	178	757	4,169
3564	Blowers and fans.....	20	9	2,106	9,668	1,706	3,530	7,013	15,118	25,586	333	1,894	12,530
3565	Industrial trucks and tractors	14	6	451	2,020	293	616	1,124	4,547	7,603	(D)	252	(D)
3566	Power-transmission equipment..	48	18	2,447	10,968	1,808	3,611	7,283	18,851	28,942	660	3,202	15,865

See footnotes at end of table.

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
3567	Machinery, except electrical—Con.	10	3	629	3,281	319	665	1,471	5,825	10,565	(D)	639	(D)
3569	Industrial furnaces and ovens..	59	28	6,313	31,297	3,302	6,527	14,095	36,634	59,841	15,506	5,073	27,167
357	Office and store machines....	79	36	31,357	149,771	24,344	49,612	104,099	244,130	( <sup>2</sup> )	15,262	28,422	129,385
3571	Computing and related machines.	21	14	20,142	106,093	14,200	29,449	65,472	142,490	254,210	(D)	12,634	45,903
3572	Typewriters.....	6	5	8,850	34,089	8,169	16,236	31,324	75,055	92,519	1,143	12,943	63,598
3576	Scales and balances.....	11	4	823	3,332	639	1,312	2,278	5,168	9,360	66	703	3,517
3579	Office and store machines, nec.	41	13	1,541	6,256	1,335	2,614	5,024	21,416	29,734	(D)	2,142	16,367
358	Service and household machines.....	154	66	17,065	75,447	11,642	22,753	45,232	175,266	( <sup>2</sup> )	8,272	14,061	77,873
3581	Domestic laundry equipment.....	5	3	2,489	9,830	1,734	3,324	6,304	15,928	36,530	(D)	(D)	(D)
3582	Laundry and dry-cleaning mach..	18	9	2,171	9,123	1,586	3,189	6,523	19,124	30,935	377	3,642	25,246
3585	Refrigeration machinery.....	73	32	10,821	50,069	7,134	13,925	28,455	126,685	( <sup>2</sup> )	6,056	5,990	24,859
359	Miscellaneous machinery parts	944	151	17,615	73,956	14,403	29,877	55,371	129,270	( <sup>2</sup> )	(D)	11,453	54,876
3591	Valves and fittings, exc. plbg.	52	28	3,198	12,863	2,581	5,105	9,474	23,293	34,780	771	3,329	15,334
3592	Fabricated pipe and fittings....	22	11	470	1,844	359	703	1,152	2,942	6,560	71	296	(D)
3593	Ball and roller bearings.....	11	10	3,816	16,486	3,166	6,546	12,725	29,106	42,682	578	3,172	(D)
3594	Industrial patterns and molds..	164	11	1,154	5,104	953	2,084	3,936	8,139	11,049	490	(D)	(D)
3599	Machine shops.....	695	91	8,975	37,658	7,342	15,438	28,083	65,788	96,382	(D)	4,004	18,422
36	Electrical machinery.....	1,041	471	125,278	519,303	93,014	183,589	339,394	938,632	( <sup>2</sup> )	41,106	101,328	456,410
361	Electrical industrial apparatus.....	331	170	46,705	203,704	34,642	68,472	134,804	339,171	( <sup>2</sup> )	18,436	39,049	163,699
3611	Wiring devices and supplies....	79	44	8,804	31,546	7,609	15,166	24,947	61,513	97,879	1,441	7,864	42,796
3612	Carbon and graphite products...	12	6	2,071	10,629	1,589	3,232	7,172	19,110	34,958	1,615	2,279	11,897
3613	Elec. measuring instruments....	61	29	2,889	13,384	2,032	3,917	7,850	21,798	39,072	551	480	(D)
3614	Motors and generators.....	38	24	20,238	91,343	14,395	28,302	59,145	141,152	255,486	12,279	13,357	51,876
3615	Transformers.....	24	14	995	3,239	850	1,708	2,285	4,182	7,262	190	1,969	7,534
3616	Electrical control apparatus...	67	33	9,205	42,877	6,432	12,801	27,241	67,644	109,238	1,560	11,832	39,945
3617	Electrical welding apparatus...	6	2	100	411	74	148	289	664	1,202	12	152	(D)
3619	Elec. industrial apparatus, nec	44	18	2,402	10,273	1,656	3,194	5,873	23,105	36,724	785	1,116	6,295
3621	Electrical appliances.....	64	19	3,276	9,931	2,776	5,335	7,284	22,317	47,033	1,682	2,516	(D)
3631	Insulated wire and cable.....	27	6	1,792	7,479	1,466	2,984	5,523	12,504	44,688	(D)	3,934	19,656
3641	Engine elec. equipment.....	22	18	7,012	28,664	5,168	10,317	18,725	41,870	67,846	(D)	6,412	27,361
3651	Electric lamps (bulbs).....	6	3	322	930	274	570	729	1,508	2,417	40	804	(D)
366	Communication equipment.....	468	219	61,516	250,979	45,152	88,996	161,173	484,912	( <sup>2</sup> )	17,080	44,416	205,829
3661	Radios and related products....	336	172	45,885	187,033	33,247	65,383	117,885	380,370	( <sup>2</sup> )	10,112	33,412	158,570
369	Electrical products, n.e.c....	123	36	4,653	17,615	3,534	6,911	11,153	36,346	( <sup>2</sup> )	1,738	4,197	27,105
3691	Storage batteries.....	12	6	1,269	5,473	877	1,752	3,293	9,160	22,706	1,015	1,028	(D)
3699	Electrical products, n.e.c....	72	16	1,963	6,474	1,609	3,109	4,323	16,779	29,355	398	1,998	10,383
37	Transportation equipment...	483	209	141,131	709,046	110,034	229,705	512,349	1,188,463	( <sup>2</sup> )	94,052	89,803	408,482
371	Motor vehicles and equipment.	145	55	46,230	222,326	38,237	81,564	178,046	397,839	( <sup>2</sup> )	76,124	40,545	202,006
3713	Truck and bus bodies.....	59	12	1,898	7,773	1,579	3,073	5,973	10,986	24,785	(D)	1,600	7,458
3717	Motor vehicles and parts.....	82	41	44,236	214,157	36,589	78,351	171,840	385,873	( <sup>2</sup> )	75,657	38,914	194,444
372	Aircraft and parts.....	142	83	80,163	417,213	59,533	124,570	283,062	686,277	( <sup>2</sup> )	10,844	17,663	70,451
3721	Aircraft.....	10	9	51,005	278,737	36,998	77,666	184,867	440,796	652,206	5,240	13,968	55,536
3729	Aircraft equipment, n.e.c.....	111	55	20,194	96,166	15,401	32,224	67,224	158,016	250,448	3,457	2,059	8,543
373	Ships and boats.....	173	58	10,323	45,964	8,783	16,823	36,069	65,658	( <sup>2</sup> )	4,034	20,103	86,016
3731	Ship building and repairing....	67	40	8,844	40,281	7,486	14,082	31,273	58,130	84,329	3,691	17,896	77,594
3732	Boat building and repairing....	106	18	1,479	5,682	1,297	2,741	4,796	7,527	13,476	342	2,207	8,422
374	Railroad equipment.....	6	6	3,498	20,415	2,655	5,223	12,596	33,927	( <sup>2</sup> )	2,881	7,172	(D)
38	Instruments and related products.....	815	231	79,999	385,264	57,877	113,321	241,885	700,389	( <sup>2</sup> )	38,060	87,320	426,050
3811	Scientific instruments.....	54	16	5,404	28,515	3,639	7,470	17,279	36,524	53,731	903	5,294	22,611
3821	Mech. measuring instruments..	128	27	6,893	28,530	5,501	10,594	20,847	54,709	77,252	984	10,310	46,557
3831	Optical instruments & lenses..	68	18	7,612	36,246	5,601	10,535	23,604	51,283	66,144	2,244	6,342	25,261
384	Medical equipment and supplies.....	214	45	6,938	29,064	5,457	11,090	19,790	48,305	( <sup>2</sup> )	2,226	8,669	41,827
3841	Surgical & medical instruments.	54	13	1,419	5,594	1,146	2,285	3,790	7,953	12,357	212	1,914	9,098
3842	Surgical appliances & supplies.	105	21	3,077	12,298	2,497	5,223	8,624	21,558	51,360	1,384	3,587	16,896
3843	Dental equipment and supplies..	55	11	2,440	11,171	1,813	3,581	7,375	18,793	30,748	629	3,168	15,833
3851	Ophthalmic goods.....	96	42	9,027	33,986	7,303	14,426	25,029	53,527	77,232	1,944	10,584	37,114
3861	Photographic equipment.....	132	47	38,832	201,714	26,295	51,101	119,948	403,623	584,096	29,127	39,256	193,966
387	Watches and clocks.....	123	36	5,290	27,207	4,079	8,102	15,385	52,416	( <sup>2</sup> )	631	6,865	58,714
3871	Watches and clocks.....	71	18	3,664	19,920	2,652	5,293	9,588	42,477	105,379	494	4,574	46,167
3872	Watchcases.....	52	18	1,625	7,287	1,426	2,809	5,797	9,939	17,305	136	2,291	12,547

See footnotes at end of table.



## MANUFACTURES—AREA STATISTICS

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establish- ments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
39	Miscellaneous manufactures.	5,504	1,329	161,624	621,485	127,555	246,356	418,957	1,055,735	(2)	24,141	105,600	495,225
391	Jewelry and silverware.....	1,027	109	13,923	56,468	11,321	21,726	39,452	93,757	(2)	1,494	15,131	92,912
3911	Jewelry (precious metal).....	674	64	7,456	31,210	5,802	11,158	19,650	52,922	108,201	547	7,269	46,597
3912	Jewelers' findings.....	42	6	592	1,922	497	959	1,323	3,661	14,541	(D)	578	3,782
3913	Lapidary work.....	236	6	985	3,248	895	1,511	2,370	7,135	26,341	(D)	1,070	8,216
3914	Silverware and plated ware....	75	33	4,888	20,086	4,124	8,097	16,107	30,038	53,563	812	6,214	34,317
393	Musical instruments and parts	48	18	2,269	8,611	1,952	3,571	6,559	12,150	(2)	205	3,002	15,125
3933	Piano and organ parts.....	8	3	316	1,296	258	524	801	2,282	3,182	111	451	(D)
3939	Musical instruments, n.e.c.....	28	5	360	1,158	319	638	891	1,734	3,245	(D)	547	2,678
394	Toys and sporting goods.....	766	264	22,531	59,326	19,970	35,774	44,596	109,545	(2)	3,552	15,098	61,609
3941	Games and toys, n.e.c.....	286	98	8,347	21,560	7,110	12,785	15,069	44,685	89,553	1,511	4,620	20,158
3942	Dolls.....	351	126	11,166	28,713	10,266	18,108	22,720	49,602	112,228	1,733	5,669	24,973
395	Office supplies.....	198	56	5,985	22,593	4,456	8,927	13,795	37,778	(2)	1,341	6,791	33,584
3951	Pens and mechanical pencils...	51	21	1,408	3,693	1,209	2,311	2,672	6,460	13,619	201	2,164	12,039
3952	Lead pencils and crayons.....	11	5	1,384	5,791	965	2,050	3,478	7,734	13,867	375	2,145	7,988
3953	Hand stamps and stencils.....	68	13	1,033	4,009	760	1,500	2,573	5,907	9,292	239	771	3,303
3954	Artists' materials.....	42	6	582	1,875	454	878	1,205	3,191	6,510	93	210	1,268
3955	Carbon paper and inked ribbons.	26	11	1,576	7,224	1,066	2,185	3,864	14,484	29,002	430	1,501	8,986
396	Costume jewelry and notions..	1,342	321	24,667	69,453	21,621	40,869	51,870	119,788	(2)	2,674	21,712	83,490
3961	Costume jewelry.....	554	138	10,438	29,917	9,044	17,461	21,786	53,430	105,661	1,339	7,252	30,228
3962	Artificial flowers.....	292	60	4,282	10,612	3,959	7,131	8,394	17,781	31,357	107	5,114	17,104
3963	Buttons.....	265	60	4,144	11,649	3,592	6,873	8,696	19,987	34,025	706	4,238	16,706
3964	Needles, pins, and fasteners...	231	63	5,802	17,274	5,024	9,402	12,992	28,589	57,228	522	5,108	19,452
3971	Plastics, products, n.e.c....	514	165	13,669	49,477	11,476	23,208	34,097	86,541	173,371	4,372	7,904	38,118
398	Miscellaneous manufactures <sup>5</sup> ..	1,609	396	78,578	355,555	56,756	112,277	228,586	596,173	(2)	10,498	35,012	163,431
3981	Brooms and brushes.....	105	41	3,796	12,909	3,044	5,878	8,403	23,247	49,094	705	4,442	21,518
3984	Candles.....	30	11	1,844	6,057	1,362	2,871	3,857	10,273	17,711	410	1,670	6,519
3986	Jewelry and instrument cases...	79	25	2,260	6,656	1,941	3,844	4,751	11,175	21,402	229	2,191	8,531
3987	Lamp shades.....	152	24	1,740	4,325	1,585	3,058	3,436	7,529	13,516	43	1,463	4,942
3988	Morticians' goods.....	39	13	1,117	4,587	891	1,868	3,263	6,441	11,382	376	1,968	9,350
3992	Furs, dressed and dyed.....	115	26	2,090	10,448	1,812	3,095	8,333	15,146	18,308	26	3,520	21,650
3993	Signs and advertising displays.	460	77	6,087	24,231	4,905	9,740	16,553	38,736	62,872	586	4,934	24,756
3994	Hairwork.....	81	22	1,238	3,083	1,093	1,976	2,375	5,074	9,594	113	886	3,642
3995	Umbrellas, parasols, and canes.	97	23	1,338	4,106	1,179	2,156	2,982	7,303	17,425	48	1,353	7,010
3997	Soda-fountain and bar equipment	18	4	241	936	199	355	689	1,681	3,148	19	245	1,712
3999	Miscellaneous products, n.e.c...	297	60	4,731	15,677	4,013	7,935	11,691	26,814	46,707	436	6,292	28,736
1900	Ordnance and accessories.....	65	51	49,991	254,841	32,971	65,859	156,842	429,470	(2)	7,366	(D)	(D)

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industries (4-digit) and industry groups (3-digit) are not shown. Industries and industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "all industries" line.

<sup>2</sup>The total value of shipments figures for industry groups and a few individual industries have not been published due to the extensive and unmeasurable duplication arising from shipments from one establishment to another in the same industry classification. (See Introduction).

<sup>3</sup>The 1954 and 1947 "all industries" totals are not strictly comparable because of differences in scope between the two years in major groups 20 and 24 (see footnote 4).

<sup>4</sup>Comparable data for Major Groups 20 and 24 are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude establishments in S.I.C. Industry 2411, Logging Camps and Contractors, which are included in the scope of the 1954 Census; the 1947 Census also excludes plants processing and distributing fluid milk which in 1954 were classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
20	Food and kindred products except subgroup 202, Dairy products.....	128,168	1,152,445	128,624	920,179
24	Lumber and wood products except Industry 2411, Logging camps and contractors.....	16,971	87,343	16,957	69,421

<sup>5</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)



Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947  
(For explanation of column captions see Introduction)

Code	Industry group	Establish- ments, number	1954						1947		
			All employees		Production workers			Value added by manufacture	Capital expendi- tures, new	All employees, number	Value added by manufacture
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
ALBANY-SCHENECTADY-TROY STANDARD METROPOLITAN AREA (Consists of Albany, Rensselaer, and Schenectady Counties, New York)											
	All industries, total <sup>1</sup> ...	675	71,981	325,518	51,177	101,649	205,508	584,708	44,627	<sup>2</sup> 71,388	<sup>2</sup> 324,346
20	Food and kindred products...	149	5,229	21,672	3,259	6,825	12,133	44,983	2,855	( <sup>3</sup> )	( <sup>3</sup> )
201	Meat products.....	13	1,283	5,566	924	2,032	3,618	9,524	389	1,026	5,516
202	Dairy products.....	64	1,390	5,270	674	1,325	2,122	10,841	1,359	( <sup>3</sup> )	( <sup>3</sup> )
204	Grain mill products.....	7	257	1,246	183	397	866	3,154	49	(D)	(D)
205	Bakery products.....	20	926	3,765	629	1,273	2,179	5,603	284	(D)	(D)
208	Beverages.....	26	1,108	4,721	633	1,272	2,478	12,409	720	1,304	11,684
22	Textile mill products.....	35	3,915	14,215	3,243	6,356	10,103	22,965	1,108	5,906	23,736
221	Woolen and worsted manufactures	4	2,166	9,195	1,684	3,390	6,152	13,819	966	(D)	(D)
225	Knitting mills.....	18	783	1,831	705	1,177	1,430	2,737	27	1,844	5,275
229	Miscellaneous textile goods....	10	805	2,675	702	1,445	2,040	5,011	103	(D)	(D)
23	Apparel & related products...	68	7,236	19,251	6,216	11,060	14,456	26,557	263	6,832	29,149
232	Men's and boys' furnishings...	15	4,706	13,329	3,893	6,865	9,481	17,507	123	4,773	21,820
233	Women's and misses' outerwear..	19	1,035	2,096	955	1,815	1,815	2,538	49	443	973
234	Women's undergarments.....	4	274	584	256	437	461	841	7	(D)	(D)
236	Children's outerwear.....	7	358	777	344	683	711	788	3	402	1,457
239	Fabricated textiles, n.e.c.....	15	463	1,328	390	653	953	2,397	77	147	621
24	Lumber and wood products....	30	371	1,304	327	686	946	1,873	103	353	1,449
249	Miscellaneous wood products....	7	235	807	213	456	599	1,045	69	(D)	(D)
25	Furniture and fixtures.....	20	227	825	183	363	562	1,924	55	277	1,130
251	Household furniture.....	11	173	676	136	274	442	1,499	35	257	1,065
26	Pulp, paper and products....	25	2,624	10,822	2,249	4,944	8,479	18,384	1,501	3,169	17,678
261	Pulp, paper and board.....	7	1,005	4,524	884	2,017	3,663	9,128	961	(D)	(D)
267	Paperboard containers.....	10	803	3,347	690	1,439	2,459	4,841	415	(D)	(D)
27	Printing and publishing.....	105	4,602	20,452	3,312	6,316	14,079	31,803	1,109	3,794	17,709
271	Newspapers.....	15	1,489	6,689	719	1,216	3,314	10,701	143	1,274	7,207
273	Books.....	8	314	1,626	121	236	589	2,459	42	(D)	(D)
275	Commercial printing.....	49	2,336	10,078	2,074	4,089	8,704	14,944	841	2,163	8,694
276	Lithographing.....	9	218	898	176	352	689	1,154	47	(D)	(D)
279	Printing trade services.....	13	137	714	164	317	586	1,421	24	(D)	(D)
28	Chemicals and products.....	34	2,578	12,326	1,815	3,786	7,123	45,620	1,257	3,590	31,631
285	Paints and allied products.....	7	378	2,175	240	506	1,027	7,509	220	(D)	(D)
29	Petroleum and coal products.	3	202	(D)	179	(D)	(D)	(D)	(D)	406	(D)
30	Rubber products.....	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
31	Leather and leather goods...	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
32	Stone, clay, & glass prod....	36	4,235	18,114	2,853	5,403	10,474	38,145	1,078	3,621	19,768
325	Structural clay products.....	5	365	1,371	336	630	1,193	1,573	31	(D)	(D)
327	Concrete and plaster products..	17	208	850	163	302	525	1,504	241	129	673
329	Nonmet. mineral products, nec..	7	3,399	14,779	2,147	4,067	7,935	33,282	707	(D)	(D)
33	Primary metal industries....	17	3,173	14,842	2,592	5,370	11,606	21,300	563	3,048	17,109
332	Iron and steel foundries.....	7	1,165	5,091	963	1,898	3,897	7,799	298	(D)	(D)
34	Fabricated metal products...	37	1,270	5,459	966	1,931	3,206	7,386	283	894	4,029
342	Cutlery, tools, and hardware...	5	110	369	86	158	254	565	11	(D)	(D)
344	Structural metal products.....	21	311	1,503	249	535	1,164	1,987	83	169	842
349	Metal products, n.e.c.....	4	705	3,095	503	986	1,425	3,978	165	(D)	(D)
35	Machinery, exc. electrical..	47	13,791	(D)	9,610	(D)	(D)	(D)	(D)	7,391	23,573
355	Special-industry machinery, nec	5	487	2,211	326	608	1,226	3,410	34	183	1,000
359	Miscellaneous machinery parts..	24	1,003	4,055	828	1,577	3,054	6,277	265	855	3,390
36	Electrical machinery.....	14	11,987	(D)	7,805	(D)	(D)	(D)	(D)	13,909	(D)
37	Transportation equipment....	11	3,834	(D)	2,413	(D)	(D)	(D)	(D)	7,559	(D)
38	Instruments & related prod..	5	519	(D)	453	(D)	(D)	(D)	(D)	3,381	(D)
39	Miscellaneous manufactures <sup>4</sup> ..	37	5,954	27,179	3,537	6,742	13,647	42,229	1,927	2,453	9,453
394	Toys and sporting goods.....	7	397	1,098	346	613	831	1,697	35	532	1,604
397	Plastics products, n.e.c.....	8	322	1,163	279	557	913	1,632	55	(D)	(D)
398	Miscellaneous manufactures <sup>4</sup> ..	17	5,208	24,831	2,892	5,541	11,855	38,751	1,818	(D)	(D)

See footnotes at end of table.

## MANUFACTURES—AREA STATISTICS

Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Code	Industry group	Establish- ments, number	1954							1947	
			All employees		Production workers			Value added by manufacture	Capital expendi- tures, new	All employees, number	Value added by manufacture
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
BINGHAMTON STANDARD METROPOLITAN AREA (Consists of Broome County, New York)											
	All industries, total <sup>1</sup> ...	289	40,502	159,561	32,523	60,697	112,853	268,720	15,213	<sup>2</sup> 35,769	<sup>2</sup> 159,879
20	Food and kindred products...	55	1,674	6,196	1,139	2,392	3,846	10,348	730	( <sup>3</sup> )	( <sup>3</sup> )
202	Dairy products.....	16	708	2,581	477	1,060	1,621	3,098	569	( <sup>3</sup> )	( <sup>3</sup> )
205	Bakery products.....	12	391	1,559	266	584	1,220	2,950	58	547	2,818
208	Beverages.....	8	134	346	71	110	105	722	35	(D)	(D)
21	Tobacco manufactures.....	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
22	Textile mill products.....	4	253	967	212	402	751	1,524	102	328	(D)
23	Apparel and related products	14	718	1,713	611	1,053	1,206	2,569	42	582	2,039
239	Fabricated textiles, n.e.c.....	5	164	377	135	217	240	434	24	(D)	(D)
24	Lumber and wood products....	13	296	1,079	238	527	845	1,633	73	298	1,123
25	Furniture and fixtures.....	4	808	(D)	723	(D)	(D)	(D)	(D)	839	(D)
26	Pulp, paper and products....	8	943	3,862	892	1,751	3,515	14,133	63	875	7,658
267	Paperboard containers.....	4	292	1,121	246	541	791	2,069	47	(D)	(D)
27	Printing and publishing.....	30	1,075	4,582	704	1,417	2,987	7,025	291	997	4,755
271	Newspapers.....	9	521	2,295	234	441	1,100	3,884	73	432	2,456
275	Commercial printing.....	14	152	624	127	282	508	860	70	226	773
28	Chemicals and products.....	6	249	828	198	365	494	3,607	55	236	(D)
30	Rubber products.....	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
31	Leather and leather goods...	44	12,253	(D)	11,662	(D)	(D)	(D)	(D)	14,080	(D)
32	Stone, clay, & glass prod...	13	189	681	143	317	458	1,034	64	115	(D)
327	Concrete and plaster products..	9	113	378	88	191	255	629	58	(D)	(D)
33	Primary metal industries....	4	547	2,386	466	800	1,851	3,286	131	595	3,004
34	Fabricated metal products...	21	797	3,154	671	1,418	2,448	4,489	296	707	2,990
342	Cutlery, tools, and hardware...	4	157	480	138	268	423	656	7	(D)	(D)
344	Structural metal products.....	8	118	532	83	169	286	762	69	(D)	(D)
346	Metal stamping and coating.....	5	251	967	221	481	836	1,502	102	(D)	(D)
35	Machinery, exc. electrical..	39	9,890	(D)	7,467	(D)	(D)	(D)	(D)	7,945	(D)
354	Metalworking machinery.....	15	283	1,202	243	507	952	1,873	43	187	865
359	Miscellaneous machinery parts..	18	508	1,935	433	859	1,606	3,919	244	(D)	(D)
36	Electrical machinery.....	7	725	2,128	641	1,174	1,752	3,817	242	...	...
364	Engine electrical equipment....	3	304	1,001	256	494	799	1,471	27	...	...
37	Transportation equipment....	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
38	Instruments & related prod..	8	4,244	(D)	2,597	(D)	(D)	(D)	(D)	4,591	(D)
39	Miscellaneous manufactures <sup>4</sup> ..	13	1,936	(D)	1,134	(D)	(D)	(D)	(D)	255	950
BUFFALO STANDARD METROPOLITAN AREA (Consists of Erie and Niagara Counties, New York)											
	All industries, total <sup>1</sup> ...	1,829	200,801	933,873	152,882	306,577	655,297	1,677,778	139,477	<sup>2</sup> 183,876	<sup>2</sup> 1,023,231
20	Food and kindred products...	372	16,624	70,498	11,796	24,183	46,915	154,166	7,348	( <sup>3</sup> )	( <sup>3</sup> )
201	Meat products.....	40	1,362	5,824	990	2,074	3,977	8,793	443	1,773	10,270
202	Dairy products.....	101	2,794	11,192	1,434	2,964	5,113	21,758	1,302	( <sup>3</sup> )	( <sup>3</sup> )
203	Canned and frozen foods.....	32	854	2,050	779	1,619	1,551	4,292	263	988	2,666
204	Grain mill products.....	37	5,427	27,291	4,377	9,577	21,769	73,291	3,078	5,901	86,166
205	Bakery products.....	63	3,713	14,536	2,642	5,135	9,138	24,281	1,485	3,973	19,005
207	Candy and related products....	17	497	1,833	388	786	1,212	3,398	68	625	3,011
208	Beverages.....	45	1,520	6,228	875	1,431	3,205	14,862	567	2,094	14,299
209	Miscellaneous foods.....	37	453	1,542	308	593	948	3,488	138	491	3,015
21	Tobacco manufactures.....	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	7	20
22	Textile mill products.....	18	1,920	6,597	1,616	3,183	4,802	12,325	682	2,127	9,319
224	Narrow fabric mills.....	4	374	1,538	303	610	1,083	2,403	158	(D)	(D)
225	Knitting mills.....	5	436	1,283	366	709	968	2,910	72	414	1,476
23	Apparel and related products	78	3,356	10,325	2,777	4,818	7,224	13,720	163	3,822	12,698
231	Men's and boys' suits and coats	10	1,208	3,709	1,131	1,823	3,115	4,636	15	1,164	3,892
232	Men's and boys' furnishings....	19	627	1,929	519	932	1,175	2,474	16	624	2,086
234	Women's undergarments.....	4	310	864	165	300	465	1,167	6	(D)	(D)
239	Fabricated textiles, n.e.c.....	37	711	2,291	573	1,032	1,569	2,770	119	633	2,343

See footnotes at end of table.



Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Code	Industry group	Establishments, number	1954							1947	
			All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
24	Lumber and wood products....	63	1,003	3,441	849	1,543	2,249	5,192	164	1,128	4,285
243	Millwork and related products..	13	198	961	146	251	488	1,233	21	(D)	(D)
244	Wooden containers.....	14	482	1,429	433	789	1,049	2,178	60	764	2,685
249	Miscellaneous wood products....	26	264	880	217	393	572	1,498	71	196	854
25	Furniture and fixtures.....	43	2,243	9,438	1,758	3,421	6,549	17,812	509	2,805	17,392
251	Household furniture.....	24	1,199	5,226	955	1,861	3,575	8,621	181	1,247	6,229
254	Partitions and fixtures.....	10	106	349	85	166	262	668	11	301	1,061
26	Pulp, paper and products....	57	6,902	29,612	5,751	12,414	22,880	57,235	5,633	7,190	40,083
261	Pulp, paper and board.....	14	2,922	14,150	2,578	5,954	11,973	26,811	3,343	2,985	17,896
267	Paperboard containers.....	28	2,303	8,756	1,888	3,821	6,401	14,581	747	2,416	8,765
269	Pulp, paper and products, nec..	7	952	3,933	675	1,321	2,395	9,243	441	1,526	12,098
27	Printing and publishing.....	212	7,522	34,708	5,231	10,150	22,809	57,830	2,331	7,049	45,180
271	Newspapers.....	33	2,339	11,009	1,088	1,926	5,120	18,935	392	1,808	12,506
273	Books.....	14	185	945	103	209	462	1,549	79	(D)	(D)
275	Commercial printing.....	87	2,379	10,765	1,956	3,805	7,946	15,943	1,044	3,482	22,250
276	Lithographing.....	20	2,063	9,650	1,668	3,427	7,571	17,865	716	1,126	7,428
278	Bookbinding & related inds.....	12	135	363	119	223	303	562	27	118	403
279	Printing trade services.....	26	310	1,661	248	485	1,298	2,291	47	410	2,141
28	Chemicals and products.....	126	17,218	87,307	11,663	23,429	52,430	204,777	17,166	16,801	138,850
281	Inorganic chemicals.....	16	3,628	18,690	2,331	4,779	10,713	44,695	4,138	2,567	20,223
282	Organic chemicals.....	20	10,564	55,204	7,359	14,676	34,200	124,718	11,838	11,142	88,568
283	Drugs and medicines.....	14	621	2,549	474	913	1,602	7,926	243	539	3,293
284	Soap and related products.....	23	218	688	143	261	410	2,000	55	(D)	(D)
285	Paints and allied products.....	11	855	4,198	561	1,125	2,187	13,225	215	496	4,836
287	Fertilizers.....	3	186	848	144	300	596	2,063	101	(D)	(D)
288	Vegetable and animal oils.....	6	250	1,203	208	489	977	3,383	406	442	9,428
289	Chemical products.....	33	894	3,925	440	881	1,742	6,763	167	1,177	8,583
29	Petroleum and coal products..	16	2,908	13,547	2,433	4,739	10,523	25,263	3,583	2,718	23,128
293	Coke and byproducts.....	3	1,761	7,910	1,594	3,070	6,680	14,410	1,726	(D)	(D)
295	Paving and roofing materials...	7	396	1,689	307	617	1,168	3,650	176	106	744
30	Rubber products.....	12	3,273	17,259	2,471	5,306	12,235	25,666	2,773	4,058	26,513
31	Leather and leather goods...	12	(D)	(D)	(D)	(D)	(D)	(D)	(D)	551	2,312
32	Stone, clay, & glass prod...	86	7,536	34,702	6,009	12,013	25,894	67,803	3,708	7,296	45,106
323	Products of purchased glass....	8	266	891	226	467	669	2,152	24	382	1,892
327	Concrete and plaster products..	37	1,234	5,543	1,041	2,300	4,507	11,618	1,091	752	4,459
329	Nonmet. mineral products, nec..	25	4,841	23,509	3,660	7,039	16,634	43,616	1,976	5,146	32,774
33	Primary metal industries....	81	35,400	162,404	29,241	54,728	125,887	312,240	15,675	38,441	163,028
331	Blast furnaces and steel mills..	15	25,111	116,845	21,129	39,262	92,233	241,110	13,303	25,506	110,074
332	Iron and steel foundries.....	25	3,714	17,042	3,058	6,046	12,912	26,050	679	5,788	24,025
334	Secondary nonferrous metals....	5	187	1,000	130	313	651	1,153	89	(D)	(D)
339	Primary metal industries, nec..	15	3,890	17,036	2,808	5,203	11,826	27,046	693	3,117	10,077
34	Fabricated metal products...	201	8,692	39,072	6,729	13,381	26,919	68,007	2,676	12,132	61,901
342	Cutlery, tools, and hardware...	12	711	3,129	583	1,217	2,233	4,694	145	2,552	12,107
343	Heating and plumbing equipment.	15	2,555	11,322	1,961	3,758	8,060	21,179	865	(D)	(D)
344	Structural metal products.....	78	2,768	13,580	2,036	4,184	8,926	25,400	824	2,073	14,678
346	Metal stamping and coating....	51	1,321	5,410	1,106	2,206	3,890	8,046	366	1,391	5,589
348	Fabricated wire products.....	10	543	2,237	396	748	1,365	3,366	254	(D)	(D)
349	Metal products, n.e.c.....	24	700	3,050	571	1,118	2,196	4,744	197	722	4,338
35	Machinery, exc. electrical..	247	15,013	71,901	10,414	20,961	44,353	105,956	4,385	15,017	75,951
353	Construction & mining mach....	7	353	1,774	238	490	1,064	3,592	232	(D)	(D)
354	Metalworking machinery.....	56	2,792	14,453	2,101	4,309	9,671	24,012	1,057	1,924	9,657
355	Special-industry machinery, nec	32	1,695	8,266	1,202	2,402	4,926	12,719	263	4,364	16,058
356	General industrial machinery...	30	7,037	32,841	4,561	9,145	19,317	44,185	2,139	6,248	39,565
358	Service and household machines.	6	1,479	6,963	998	1,936	3,964	10,359	211	524	2,738
359	Miscellaneous machinery parts..	108	1,314	6,021	1,052	2,168	4,400	10,211	475	929	3,793
36	Electrical machinery.....	36	14,888	67,766	10,312	20,061	41,589	112,838	4,464	14,416	63,505
361	Electrical industrial apparatus	19	8,296	37,718	5,694	11,013	23,399	52,199	2,800	6,172	21,312
362	Electrical appliances.....	3	366	1,441	281	546	945	2,139	181	560	1,785
366	Communication equipment.....	7	5,231	24,260	3,672	7,154	14,657	51,784	516	(D)	(D)
369	Electrical products, n.e.c.....	7	994	4,345	664	1,347	2,587	6,714	966	(D)	(D)
37	Transportation equipment....	47	46,158	233,270	35,692	75,794	170,865	370,668	66,143	23,641	110,894
371	Motor vehicles and equipment...	20	25,513	128,545	21,260	46,561	105,360	211,273	62,165	20,163	96,150
372	Aircraft and parts.....	17	20,089	102,207	13,926	28,171	63,403	155,707	3,104	(D)	(D)
373	Ships and boats.....	7	316	1,547	290	672	1,313	1,896	580	(D)	(D)
38	Instruments & related prod...	24	2,689	11,078	2,173	4,204	8,028	17,841	158	3,159	13,038
384	Medical equipment and supplies.	11	1,190	5,264	1,032	2,205	4,125	9,325	73	(D)	(D)
39	Miscellaneous manufactures <sup>4</sup> ..	96	7,226	30,322	5,774	11,885	22,647	47,351	1,911	5,172	27,552
391	Jewelry and silverware.....	14	172	681	139	257	453	946	(D)	(D)	(D)
394	Toys and sporting goods.....	15	636	2,153	542	1,050	1,610	3,493	172	657	2,551
396	Costume jewelry and notions....	3	233	582	215	384	452	990	31	(D)	(D)
397	Plastics products, n.e.c.....	18	1,792	7,925	1,498	3,130	5,997	14,272	352	1,613	12,592
398	Miscellaneous manufactures <sup>4</sup> ....	39	4,119	17,874	3,163	6,648	13,508	25,878	1,245	2,047	8,415

See footnotes at end of table.



## MANUFACTURES—AREA STATISTICS

Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947 --Continued  
(For explanation of column captions see Introduction)

Code	Industry group	Establish- ments, number	1954						1947			
			All employees		Production workers			Value added by manufacture	Capital expendi- tures, new	All employees, number	Value added by manufacture	
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
NEW YORK-NORTHEASTERN NEW JERSEY STANDARD METROPOLITAN AREA (Consists of New York City (Bronx, Kings, New York, Queens, and Richmond Counties); Nassau, Rockland, Suffolk, and Westchester Counties, New York; Bergen, Essex, Hudson, Middlesex, Morris, Passaic, Somerset, and Union Counties, New Jersey)												
	All industries, total <sup>1</sup> ...	51,403	1,731,977	7,095,016	1,336,116	2,566,509	4,714,688	13,115,922	444,124	<sup>2</sup> 1,598,662	<sup>2</sup> 9,310,900	
20	Food and kindred products...	2,526	131,941	582,160	87,170	173,275	339,222	1,311,587	48,597	( <sup>3</sup> )	( <sup>3</sup> )	
201	Meat products.....	267	12,595	58,221	9,680	20,383	40,876	96,592	3,091	12,069	67,030	
202	Dairy products.....	425	13,813	65,294	7,673	15,595	31,459	140,566	7,493	( <sup>3</sup> )	( <sup>3</sup> )	
203	Canned and frozen foods.....	210	5,866	20,136	4,793	9,040	13,278	43,762	1,501	4,772	28,398	
204	Grain mill products.....	47	1,936	9,224	1,366	3,091	5,331	25,879	566	2,017	17,519	
205	Bakery products.....	653	38,251	156,870	24,254	48,173	89,801	265,836	8,436	33,404	201,062	
206	Sugar.....	4	3,782	16,522	2,902	5,546	11,862	28,957	2,792	3,671	22,008	
207	Candy and related products....	181	13,903	47,561	11,410	22,200	34,045	115,087	2,228	14,227	96,491	
208	Beverages.....	265	24,808	134,761	13,324	24,628	68,247	305,948	13,517	21,638	178,465	
209	Miscellaneous foods.....	474	16,984	73,568	11,766	24,615	44,320	288,957	8,970	17,310	218,736	
21	Tobacco manufactures.....	105	3,384	9,524	2,996	5,478	7,750	31,188	585	5,353	29,878	
212	Cigars.....	92	1,881	4,509	1,698	2,973	3,606	7,132	74	3,596	10,768	
22	Textile mill products.....	2,123	71,858	270,334	61,859	121,851	202,659	452,677	15,067	87,506	451,732	
221	Woolen and worsted manufactures	47	6,875	25,284	5,574	10,708	18,798	29,981	870	14,152	62,646	
222	Yarn and thread mills.....	81	1,934	6,415	1,488	2,478	3,722	9,915	240	2,808	16,406	
223	Broad-woven fabrics.....	180	4,030	15,048	3,555	6,855	11,492	24,376	689	6,410	36,426	
224	Narrow fabric mills.....	159	3,280	11,674	2,832	5,615	8,511	17,588	561	3,834	19,485	
225	Knitting mills.....	953	24,471	82,580	21,524	39,630	61,312	154,629	6,164	19,497	99,576	
226	Finishing textiles except wool.	348	15,857	69,785	13,697	29,720	54,281	107,030	2,732	19,435	111,625	
227	Carpets and rugs.....	21	4,118	16,297	3,557	7,412	13,170	37,594	1,144	9,485	48,020	
228	Hats, except cloth & millinery.	99	1,981	6,608	1,756	3,324	4,959	10,434	110	3,518	16,828	
229	Miscellaneous textile goods....	235	9,308	36,640	7,872	16,104	26,411	61,127	2,555	8,367	40,720	
23	Apparel and related products	17,501	394,421	1,247,367	346,617	601,370	946,035	2,073,737	18,409	387,395	2,037,614	
231	Men's and boys' suits and coats	612	26,977	96,765	23,908	42,312	76,416	145,690	479	40,550	224,932	
232	Men's and boys' furnishings...	1,273	30,191	89,541	26,201	44,437	64,166	155,719	1,347	29,408	146,092	
233	Women's and misses' outerwear..	6,391	168,672	555,667	148,621	252,958	426,692	903,838	6,253	163,992	901,381	
234	Women's undergarments.....	1,064	39,210	112,547	34,063	59,748	80,093	206,966	2,724	37,757	185,434	
235	Millinery.....	654	12,809	45,107	11,517	21,047	36,632	70,557	310	13,328	71,444	
236	Children's outerwear.....	1,166	33,703	97,468	29,714	51,771	73,185	166,811	1,483	22,700	104,374	
237	Fur goods.....	1,747	9,019	39,652	7,221	12,572	31,491	68,513	363	14,267	112,385	
238	Miscellaneous apparel.....	1,013	24,098	66,757	21,446	36,747	50,208	113,600	1,015	21,190	95,251	
239	Fabricated textiles, n.e.c.....	3,581	49,739	143,863	43,922	79,776	107,149	242,043	4,433	44,203	196,321	
24	Lumber and wood products....	845	10,571	38,840	8,670	17,399	27,689	61,874	1,456	8,996	45,834	
242	Lumber and basic products.....	38	840	2,818	714	1,310	2,241	4,208	94	412	3,068	
243	Millwork and related products..	311	4,170	17,889	3,178	6,424	11,882	26,280	647	2,811	15,992	
244	Wooden containers.....	137	1,992	6,548	1,728	3,521	5,109	11,019	303	2,605	12,085	
249	Miscellaneous wood products....	352	3,554	11,536	3,037	6,119	8,420	20,156	403	3,168	14,689	
25	Furniture and fixtures.....	1,848	31,007	119,020	25,370	49,857	86,577	198,459	4,588	27,502	139,591	
251	Household furniture.....	1,123	19,570	73,494	16,124	30,978	53,435	123,387	2,730	16,996	85,174	
252	Office furniture.....	49	2,058	7,142	1,685	3,516	5,308	11,740	480	2,036	8,145	
253	Public and professional furn...	37	1,514	5,910	1,249	2,535	4,212	10,471	291	1,218	6,947	
254	Partitions and fixtures.....	378	5,464	24,199	4,512	9,214	18,627	39,173	801	4,717	27,453	
256	Screens, shades, and blinds....	221	1,867	6,300	1,342	2,695	3,536	10,828	235	1,800	8,087	
259	Furniture and fixtures, n.e.c....	40	532	1,973	456	917	1,457	2,857	48	735	3,785	
26	Pulp, paper and products....	964	50,117	210,032	40,564	83,687	146,928	374,489	19,671	42,740	272,369	
261	Pulp, paper and board.....	37	4,547	23,225	3,818	8,438	18,461	41,059	5,312	4,763	45,397	
264	Paper coating and glazing.....	65	2,810	13,142	2,067	4,398	7,940	31,036	966	1,837	13,521	
265	Envelopes.....	41	2,347	10,084	1,946	4,224	7,001	14,643	2,806	1,999	11,922	
266	Paper bags.....	87	3,087	12,303	2,391	4,925	7,394	22,263	1,107	1,935	12,253	
267	Paperboard containers.....	397	22,627	91,943	18,468	37,575	63,911	154,811	4,742	19,324	119,000	
269	Pulp, paper and products, nec..	337	14,696	59,332	11,873	24,127	42,219	110,676	4,737	12,882	70,276	
27	Printing and publishing.....	5,554	159,206	796,319	88,358	166,531	397,078	1,511,833	33,338	157,404	1,085,833	
271	Newspapers.....	341	28,466	155,819	14,592	25,216	76,742	254,723	4,659	27,585	178,930	
272	Periodicals.....	579	26,771	151,577	4,211	7,301	17,881	415,539	3,782	25,429	281,529	
273	Books.....	493	20,691	90,816	6,596	12,682	26,129	230,792	3,853	24,656	163,345	
274	Miscellaneous publishing.....	308	6,059	27,487	1,049	1,950	3,886	57,927	1,274	4,465	32,782	
275	Commercial printing.....	2,111	31,793	152,152	25,864	49,482	113,968	229,561	8,010	30,745	182,887	
276	Lithographing.....	538	13,685	73,662	10,637	20,847	51,611	112,710	6,419	11,619	74,846	
277	Greeting cards.....	108	5,353	19,095	4,005	7,501	11,911	33,495	548	4,772	20,930	
278	Bookbinding & related inds.....	475	12,376	43,023	10,981	21,247	34,206	65,004	1,824	14,992	66,177	
279	Printing trade services.....	601	14,010	82,685	10,420	20,291	60,740	112,079	2,967	13,141	84,407	
28	Chemicals and products.....	1,766	102,183	478,699	66,189	134,599	264,173	1,390,154	65,089	102,086	951,221	
281	Inorganic chemicals.....	56	3,898	18,557	3,018	6,026	12,824	49,129	3,487	(D)	(D)	
282	Organic chemicals.....	143	21,877	110,169	14,960	29,768	66,227	251,816	17,865	24,520	173,549	
283	Drugs and medicines.....	291	27,734	128,477	17,485	36,850	69,239	411,565	16,783	22,681	209,406	
284	Soap and related products.....	267	12,063	59,811	6,592	12,913	26,922	174,424	7,694	11,401	135,078	
285	Paints and allied products.....	333	12,695	61,495	8,325	17,016	34,231	176,528	5,788	13,411	116,230	
287	Fertilizers.....	14	827	3,214	642	1,401	2,484	5,868	469	(D)	(D)	
288	Vegetable and animal oils.....	39	3,049	13,606	2,305	5,063	9,386	39,935	2,739	3,182	60,567	
289	Chemical products, n.e.c.....	613	19,952	82,967	12,794	25,423	42,666	279,986	10,090	21,145	208,972	

See footnotes at end of table.

Table 5.--GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947--Continued  
(For explanation of column captions see Introduction)

Code	Industry group	Establish- ments, number	1954							1947	
			All employees		Production workers			Value added by manufacture	Capital expendi- tures, new	All employees, number	Value added by manufacture
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
29	Petroleum and coal products.	101	14,333	77,577	9,870	19,270	50,009	131,215	45,918	15,457	210,035
291	Petroleum refining.....	15	10,194	58,754	6,985	13,429	38,070	90,508	43,468	9,977	158,753
295	Paving and roofing materials...	46	2,468	10,996	1,825	3,754	7,524	24,120	1,756	2,703	18,382
30	Rubber products.....	147	11,365	46,738	9,018	17,511	33,150	78,542	2,786	14,204	66,992
309	Rubber industries, n.e.c.....	144	10,957	45,036	8,685	16,854	31,895	75,915	2,543	(D)	(D)
31	Leather and leather goods...	1,521	42,544	132,507	38,069	73,103	105,100	207,258	2,605	42,792	205,792
311	Leather tanning and finishing..	102	2,466	10,204	2,098	4,198	7,663	18,707	675	2,389	36,226
312	Industrial leather belting.....	19	291	688	208	432	740	1,029	23	229	1,409
313	Footwear cut stock.....	58	1,023	2,993	872	1,719	2,262	4,796	77	1,394	5,881
314	Footwear, except rubber.....	236	12,379	44,194	11,031	20,659	35,789	64,952	617	16,002	68,899
315	Leather gloves.....	19	225	507	213	362	463	733	5	558	1,837
316	Luggage.....	232	5,350	16,010	4,872	9,368	12,677	26,386	223	4,662	19,710
317	Purses and small leather goods.	677	18,366	50,736	16,633	32,308	40,097	78,351	876	14,242	58,423
319	Miscellaneous leather goods....	178	2,441	7,173	2,139	4,054	5,405	12,301	107	3,316	13,407
32	Stone, clay, & glass prod...	876	23,495	97,217	19,145	39,348	71,639	177,730	10,740	20,909	117,357
322	Pressed and blown glassware....	53	1,105	4,249	913	1,948	3,271	6,501	976	573	2,353
323	Products of purchased glass....	265	3,430	11,657	2,925	5,877	8,649	19,542	496	4,765	21,946
325	Structural clay products.....	19	1,077	4,409	897	1,899	3,450	6,448	981	1,097	4,381
326	Pottery and related products...	77	1,678	6,650	1,412	2,962	5,090	10,694	290	2,073	9,382
327	Concrete and plaster products...	197	4,718	20,419	3,702	8,087	14,671	46,640	1,732	3,617	22,881
328	Cut-stone and stone products...	83	1,257	5,855	1,021	2,069	4,415	10,073	321	824	4,875
329	Nonmet. mineral products, nec..	182	10,227	43,975	8,272	16,503	32,092	77,829	5,942	7,960	51,539
33	Primary metal industries....	508	38,515	175,006	31,339	63,800	129,286	310,550	20,701	38,160	226,590
332	Iron and steel foundries.....	56	4,842	20,885	4,080	7,899	15,539	28,657	763	6,121	26,917
334	Secondary nonferrous metals....	76	2,703	12,176	2,054	4,118	7,878	17,856	1,578	2,252	14,755
335	Nonferrous rolling and drawing.	36	6,291	29,731	5,070	10,605	20,895	71,796	4,986	7,666	61,608
336	Nonferrous foundries.....	196	5,715	24,924	4,888	10,126	19,502	36,259	2,284	5,025	22,259
339	Primary metal industries, nec..	129	12,163	57,619	9,754	19,901	42,599	99,249	8,815	9,977	64,407
34	Fabricated metal products...	3,752	99,351	422,238	81,590	165,731	303,796	725,915	30,466	82,960	434,283
341	Tin cans and other tinware....	37	7,314	33,618	6,474	13,239	28,307	56,372	7,091	6,568	30,000
342	Cutlery, tools, and hardware...	306	9,817	38,047	8,017	16,430	26,178	72,035	1,882	11,524	60,376
343	Heating & plumbing equipment...	176	6,328	28,519	5,012	9,697	19,586	47,710	1,101	6,654	35,695
344	Structural metal products.....	998	24,996	120,780	19,503	39,739	84,432	207,219	6,269	16,572	93,894
346	Metal stamping and coating....	1,025	18,641	71,064	16,077	32,988	52,727	116,361	4,067	16,558	80,962
347	Lighting fixtures.....	448	9,952	36,935	8,088	16,267	25,435	66,709	1,403	8,114	47,065
348	Fabricated wire products.....	224	7,291	27,585	6,256	12,238	20,827	47,166	2,092	4,698	19,423
349	Metal products, n.e.c.....	538	15,010	65,689	12,159	25,132	46,303	112,339	6,557	12,272	66,868
35	Machinery, exc. electrical...	2,801	91,678	428,917	68,874	141,123	291,793	700,321	30,645	90,466	483,384
352	Tractors and farm machinery...	11	129	466	100	210	338	726	53	195	1,211
353	Construction & mining machinery	29	1,353	6,320	1,006	2,138	4,283	8,835	1,118	2,130	11,664
354	Metalworking machinery.....	736	11,603	55,006	8,966	19,062	38,291	84,572	4,974	11,845	58,176
355	Special-industry machinery, nec	465	20,259	97,853	14,932	29,852	63,919	156,728	4,303	26,217	146,175
356	General industrial machinery...	270	21,052	103,092	14,784	30,612	67,773	193,123	4,953	17,572	102,776
357	Office and store machines.....	74	5,771	24,774	4,218	8,323	15,807	38,154	929	5,841	32,827
358	Service and household machines.	159	11,877	54,200	9,152	18,345	38,306	76,671	2,218	13,456	62,424
359	Miscellaneous machinery parts..	1,050	19,581	87,068	15,673	32,497	62,966	141,141	12,131	13,152	67,733
36	Electrical machinery.....	1,318	131,616	544,877	100,018	196,991	359,570	955,289	35,473	119,291	505,600
361	Electrical industrial apparatus	424	38,165	158,791	29,668	58,835	109,280	271,316	7,639	29,201	137,692
362	Electrical appliances.....	64	2,590	7,454	2,237	4,302	5,526	15,690	1,368	(D)	(D)
363	Insulated wire and cable.....	40	3,443	15,705	2,846	5,811	11,763	34,380	1,606	5,967	34,748
366	Communication equipment.....	612	71,749	301,461	52,994	104,030	191,778	532,153	18,710	66,195	258,331
369	Electrical products, n.e.c.....	139	6,413	24,314	5,000	9,685	16,491	49,380	2,705	6,156	32,086
37	Transportation equipment...	460	109,987	558,108	82,869	169,904	384,774	1,011,416	19,365	80,741	388,416
371	Motor vehicles and equipment...	121	20,893	103,993	17,255	36,345	81,106	281,275	7,441	22,878	147,179
372	Aircraft and parts.....	155	76,390	396,674	54,950	113,740	259,977	646,629	7,838	23,977	101,102
373	Ships and boats.....	168	11,672	53,025	9,804	18,125	40,453	76,131	3,761	32,449	131,512
38	Instruments & related prod...	849	51,857	246,981	37,364	76,022	152,744	389,081	14,472	46,304	238,642
381	Scientific instruments.....	77	17,534	91,686	11,803	24,527	56,571	129,160	3,632	8,251	36,152
382	Mech. measuring instruments....	137	4,764	20,233	3,834	7,436	14,665	39,345	1,132	8,014	36,756
383	Optical instruments and lenses.	60	1,249	6,508	880	1,726	3,705	9,424	632	(D)	(D)
384	Medical equipment and supplies.	220	10,072	44,254	6,851	14,317	24,971	75,992	3,656	11,069	53,905
385	Ophthalmic goods.....	104	3,322	10,250	2,745	5,188	6,872	16,428	654	(D)	(D)
39	Miscellaneous manufactures <sup>4</sup> ...	5,838	162,540	612,553	130,157	249,659	414,715	1,022,607	24,153	115,248	553,797
391	Jewelry and silverware.....	1,123	14,058	57,599	11,320	21,853	38,504	93,403	1,227	15,560	97,521
393	Musical instruments, n.e.c.....	48	1,662	6,111	1,443	2,630	4,754	8,930	80	2,421	12,962
394	Toys and sporting goods.....	772	26,017	70,655	23,230	41,725	54,452	129,881	4,573	15,305	67,348
395	Office supplies.....	221	8,499	31,919	6,404	12,675	19,632	50,576	1,939	9,106	45,525
396	Costume jewelry and notions....	1,409	26,761	76,470	23,332	44,115	56,715	128,628	3,107	25,703	102,699
397	Plastics products, n.e.c.....	608	15,412	55,501	12,832	25,595	37,643	97,271	5,746	9,149	40,314
398	Miscellaneous manufactures <sup>4</sup> ....	1,657	70,129	314,295	51,594	101,064	203,012	513,916	7,479	38,004	187,428

See footnotes at end of table.



## MANUFACTURES—AREA STATISTICS

Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Code	Industry group	Establish- ments, number	1954							1947	
			All employees		Production workers			Value added by manufacture	Capital expendi- tures, new	All employees, number	Value added by manufacture
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
ROCHESTER STANDARD METROPOLITAN AREA (Consists of Monroe County, New York)											
	All industries, total <sup>1</sup> ...	979	111,385	508,033	83,246	163,733	338,183	919,779	58,810	<sup>2</sup> 107,493	<sup>2</sup> 514,543
20	Food and kindred products...	195	9,020	33,985	6,413	13,317	21,327	71,935	4,919	( <sup>3</sup> )	( <sup>3</sup> )
201	Meat products.....	15	1,101	4,521	850	1,870	2,918	5,655	1,328	888	4,777
202	Dairy products.....	65	1,358	5,458	620	1,188	2,222	10,190	807	( <sup>3</sup> )	( <sup>3</sup> )
203	Canned and frozen foods.....	21	2,840	8,989	2,614	5,430	8,069	21,875	963	2,304	10,461
205	Bakery products.....	29	1,016	4,050	578	1,247	1,991	6,829	240	1,083	4,951
208	Beverages.....	22	1,233	5,567	693	1,450	2,911	12,983	733	1,439	10,518
209	Miscellaneous foods.....	33	1,165	4,555	813	1,608	2,636	12,979	826	1,008	8,106
22	Textile mill products.....	6	901	3,845	761	1,573	2,842	5,997	126	898	4,310
23	Apparel and related products	39	9,273	32,329	8,270	15,946	26,262	50,592	187	12,443	50,615
231	Men's and boys' suits and coats	15	8,013	27,365	7,416	14,351	23,765	42,296	148	9,921	40,676
232	Men's and boys' furnishings...	8	361	1,654	288	529	820	2,345	10	1,073	3,689
24	Lumber and wood products....	25	292	970	221	412	587	1,226	38	457	1,444
243	Millwork and related products..	13	130	529	89	176	325	696	17	(D)	(D)
244	Wooden containers.....	3	108	293	91	162	166	313	10	266	893
25	Furniture and fixtures.....	31	1,220	4,707	939	1,817	3,254	8,148	194	1,406	7,862
251	Household furniture.....	15	476	1,813	383	732	1,186	2,907	104	678	3,404
254	Partitions and fixtures.....	11	257	996	210	383	760	1,394	37	(D)	(D)
26	Pulp, paper and products....	35	1,731	6,867	1,381	2,711	4,765	11,605	546	2,214	11,156
264	Paper coating and glazing.....	6	138	517	117	225	414	1,312	46	(D)	(D)
267	Paperboard containers.....	16	1,092	4,209	887	1,789	3,068	6,344	302	1,583	6,828
269	Pulp, paper and products, nec..	5	204	689	161	233	433	1,262	14	258	1,054
27	Printing and publishing.....	136	4,402	20,403	2,900	5,418	13,170	36,613	1,077	4,132	25,477
275	Commercial printing.....	54	747	3,479	550	1,011	2,439	5,597	289	771	4,119
276	Lithographing.....	18	1,243	6,073	1,057	1,967	4,825	10,636	431	1,308	8,951
278	Bookbinding and related inds...	6	189	610	164	275	430	844	60	213	776
279	Printing trade services.....	25	290	1,446	213	402	1,010	1,883	63	315	1,880
28	Chemicals and products.....	36	874	4,289	409	764	1,466	12,581	450	1,180	7,923
283	Drugs and medicines.....	6	488	2,728	177	350	734	6,467	306	(D)	(D)
289	Chemical products, n.e.c.....	15	289	1,151	165	281	474	5,331	46	(D)	(D)
29	Petroleum and coal products.	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	408	(D)
30	Rubber products.....	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
31	Leather and leather goods...	17	668	1,954	612	1,131	1,662	3,093	27	1,842	6,132
314	Footwear, except rubber.....	7	583	1,695	541	1,022	1,489	2,668	14	(D)	(D)
32	Stone, clay, & glass prod...	30	797	3,569	650	1,352	2,426	4,289	167	1,090	6,434
322	Pressed and blown glass.....	5	417	1,628	386	779	1,461	1,636	28	(D)	(D)
323	Products of purchased glass....	9	106	365	87	171	252	537	3	(D)	(D)
327	Concrete and plaster products..	12	250	1,492	158	365	661	2,001	131	302	626
33	Primary metal industries....	24	844	3,823	689	1,442	2,706	5,281	237	1,444	6,354
332	Iron and steel foundries.....	4	333	1,522	284	605	1,192	1,959	100	1,109	4,739
336	Nonferrous foundries.....	12	268	1,126	220	429	805	1,471	22	(D)	(D)
34	Fabricated metal products...	90	3,112	13,536	2,504	4,955	9,211	22,235	1,522	2,643	11,826
342	Cutlery, tools, and hardware...	13	908	3,937	714	1,381	2,424	5,926	570	730	3,120
344	Structural metal products.....	24	547	2,606	408	824	1,615	4,199	165	421	1,971
346	Metal stamping and coating.....	26	475	1,897	396	785	1,408	3,632	116	505	2,199
35	Machinery, exc. electrical..	150	8,656	43,447	6,496	13,665	30,115	77,034	4,842	8,566	43,354
354	Metalworking machinery.....	75	3,985	21,537	3,290	7,094	16,851	36,246	3,765	3,395	18,203
355	Special-industry machinery, nec	17	1,355	7,142	803	1,667	3,476	11,453	387	1,642	7,753
356	General industrial machinery...	10	893	4,400	534	1,026	2,235	6,609	206	833	5,831
357	Office and store machines.....	4	1,147	4,858	842	1,751	3,350	12,719	127	(D)	(D)
36	Electrical machinery.....	27	12,588	53,318	10,072	19,481	38,840	82,274	4,063	9,532	40,342
361	Elec. industrial apparatus....	11	5,500	23,399	4,424	8,655	17,377	34,366	2,375	(D)	(D)
366	Communication equipment.....	10	6,676	28,319	5,341	10,225	20,424	42,142	1,526	(D)	(D)
37	Transportation equipment....	8	5,447	26,936	4,270	8,990	19,929	38,995	9,117	3,409	(D)
38	Instruments & related prod..	50	44,635	224,883	31,438	60,691	140,568	444,003	30,723	44,967	215,264
382	Mech. measuring instruments...	7	2,798	11,490	2,088	3,969	8,033	21,294	358	(D)	(D)
383	Optical instruments and lenses.	12	5,172	25,239	3,835	7,329	16,888	35,860	1,567	(D)	(D)
384	Medical equipment and supplies.	8	1,506	7,287	1,075	2,228	4,558	10,433	1,285	(D)	(D)
39	Miscellaneous manufactures <sup>4</sup> .	74	6,842	28,843	5,156	9,939	18,845	43,480	515	3,230	14,271
394	Toys and sporting goods.....	9	202	803	152	306	494	1,347	103	208	1,126
395	Office supplies.....	11	397	1,728	284	625	1,058	4,794	59	436	1,833
396	Costume jewelry and notions....	5	524	2,146	400	811	1,313	3,671	39	(D)	(D)
397	Plastics products, n.e.c.....	13	375	1,266	330	663	951	2,130	75	183	1,013
398	Miscellaneous manufactures <sup>4</sup> ....	32	4,003	17,585	2,984	5,603	11,580	25,093	200	632	2,518

See footnotes at end of table.



Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Code	Industry group	Establishments, number	1954							1947	
			All employees		Production workers			Value added by manufacture	Capital expenditures, new	All employees, number	Value added by manufacture
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
SYRACUSE STANDARD METROPOLITAN AREA (Consists of Onondaga County, New York)											
	All industries, total <sup>1</sup> ...	568	57,440	242,617	40,630	81,596	157,002	478,545	24,942	<sup>2</sup> 54,563	<sup>2</sup> 275,257
20	Food and kindred products...	98	3,395	12,868	1,985	3,892	6,597	23,527	1,578	( <sup>3</sup> )	( <sup>3</sup> )
201	Meat products.....	9	327	1,191	235	414	677	1,677	98	346	1,523
202	Dairy products.....	36	1,110	4,010	625	1,247	2,043	7,482	530	( <sup>3</sup> )	( <sup>3</sup> )
205	Bakery products.....	24	1,171	4,670	659	1,296	2,299	7,284	691	(D)	(D)
208	Beverages.....	11	449	1,793	212	375	708	3,593	182	467	2,412
209	Miscellaneous foods.....	8	222	737	151	347	475	2,303	47	173	536
21	Tobacco manufactures.....	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
22	Textile mill products.....	4	407	1,193	372	758	1,003	1,725	19	499	1,784
23	Apparel and related products	13	964	2,324	877	1,385	1,974	2,829	19	1,378	4,810
24	Lumber and wood products....	20	260	780	225	468	628	853	37	489	1,794
25	Furniture and fixtures.....	19	260	889	212	455	629	1,472	25	287	930
251	Household furniture.....	11	232	775	191	412	544	1,242	23	219	834
26	Pulp, paper and products....	16	871	3,276	642	1,306	2,152	5,807	177	999	4,710
261	Pulp, paper and board.....	4	151	601	124	282	413	974	22	(D)	(D)
267	Paperboard containers.....	8	521	1,897	401	782	1,257	3,313	120	(D)	(D)
269	Pulp, paper & products, n.e.c..	4	199	778	117	242	482	1,520	35	184	831
27	Printing and publishing.....	79	2,026	8,655	1,243	2,412	5,137	16,645	244	1,746	12,016
271	Newspapers.....	14	806	3,743	400	731	1,959	8,407	29	(D)	(D)
273	Books.....	4	150	629	19	36	39	1,284	51	(D)	(D)
275	Commercial printing.....	26	277	1,096	221	426	840	1,772	52	234	1,125
276	Lithographing.....	13	180	801	153	292	674	1,496	56	105	510
278	Bookbinding and related inds...	7	429	1,583	349	733	1,163	2,307	24	(D)	(D)
279	Printing trade services.....	10	126	661	92	178	444	1,084	19	116	817
28	Chemicals and products.....	26	3,690	16,901	2,804	5,945	12,091	39,902	7,465	3,807	20,724
29	Petroleum and coal products.	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	53	(D)
30	Rubber products.....	3	22	(D)	15	(D)	(D)	(D)	(D)	(D)	(D)
31	Leather and leather goods...	4	607	1,553	535	972	1,171	2,162	26	867	2,989
32	Stone, clay, & glass prod...	19	2,139	7,053	1,808	3,466	5,142	10,628	359	2,518	8,260
326	Pottery and related products...	5	1,860	5,979	1,581	3,009	4,395	8,465	95	(D)	(D)
33	Primary metal industries....	31	5,195	23,216	4,303	8,821	18,095	37,869	1,342	6,352	27,271
332	Iron and steel foundries.....	9	819	3,144	723	1,430	2,525	4,090	147	(D)	(D)
339	Nonferrous foundries.....	6	336	1,205	277	556	941	2,418	204	(D)	(D)
34	Fabricated metal products...	75	3,003	13,066	2,311	4,661	8,578	19,506	1,006	3,594	17,169
342	Cutlery, tools, and hardware...	4	303	1,141	262	489	830	1,474	5	881	4,239
343	Heating and plumbing equipment.	5	434	1,871	241	465	923	2,653	96	(D)	(D)
344	Structural metal products.....	31	936	4,432	699	1,460	2,798	6,551	263	1,008	5,610
346	Metal stamping and coating....	16	341	1,316	310	663	1,041	2,239	71	125	495
35	Machinery, exc. electrical..	99	15,272	67,508	10,394	20,719	42,264	151,755	7,561	16,318	80,757
352	Tractors and farm machinery....	3	304	1,627	238	519	1,188	2,715	43	(D)	(D)
354	Metalworking machinery.....	38	1,712	8,446	1,145	2,448	5,639	12,082	597	1,703	8,886
355	Special-industry machinery, nec	8	136	448	73	152	244	399	11	190	737
356	General industrial machinery...	8	588	2,789	362	779	1,533	6,264	98	(D)	(D)
358	Service and household machines.	9	10,114	44,529	6,456	12,439	25,541	117,866	6,021	8,573	44,223
36	Electrical machinery.....	13	12,424	52,845	7,527	15,200	30,003	114,379	2,812	6,967	51,686
37	Transportation equipment....	9	5,081	23,361	4,053	8,373	17,432	37,284	1,615	4,595	21,616
38	Instruments & related prod..	9	301	1,259	259	502	868	1,916	75	211	(D)
384	Medical equipment and supplies.	4	218	783	197	386	609	1,283	63	(D)	(D)
39	Miscellaneous manufactures <sup>4</sup> ...	26	1,437	5,478	991	2,089	2,956	9,311	505	1,302	5,106
398	Miscellaneous manufactures <sup>4</sup> ....	16	1,042	4,073	679	1,462	2,224	7,114	471	(D)	(D)
UTICA-ROME STANDARD METROPOLITAN AREA (Consists of Herkimer and Oneida Counties, New York)											
	All industries, total <sup>1</sup> ...	503	42,941	168,193	34,003	65,963	122,010	328,206	10,191	<sup>2</sup> 50,975	<sup>2</sup> 232,985
20	Food and kindred products...	135	2,765	10,193	1,795	3,674	5,855	28,183	1,835	( <sup>3</sup> )	( <sup>3</sup> )
201	Meat products.....	12	406	1,554	284	582	944	2,593	149	439	1,990
202	Dairy products.....	74	835	2,870	537	1,145	1,747	4,627	1,194	( <sup>3</sup> )	( <sup>3</sup> )
205	Bakery products.....	22	460	1,678	225	442	676	2,825	215	(D)	(D)
208	Beverages.....	13	476	2,000	305	591	1,112	7,199	89	467	2,421
209	Miscellaneous foods.....	5	381	1,545	269	551	947	10,212	137	(D)	(D)

See footnotes at end of table.

## MANUFACTURES--AREA STATISTICS

Table 5.--GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947 --Continued  
(For explanation of column captions see Introduction)

Code	Industry group	Establishments, number	1954							1947	
			All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
21	Tobacco manufactures.....	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
22	Textile mill products.....	18	3,184	9,170	2,799	4,842	7,175	11,825	311	9,669	35,695
225	Knitting mills.....	9	2,246	5,713	1,961	3,082	4,352	6,567	75	4,220	15,997
23	Apparel and related products	31	1,869	5,259	1,686	2,936	4,321	6,943	87	2,556	8,233
233	Women's and misses' outerwear..	12	902	2,384	832	1,448	1,994	3,081	43	(D)	(D)
239	Fabricated textiles, n.e.c.....	11	260	745	213	357	542	1,343	37	(D)	(D)
24	Lumber and wood products....	48	573	1,777	507	1,086	1,471	3,159	187	357	1,667
242	Lumber and basic products.....	19	321	1,086	282	656	907	1,654	105	(D)	(D)
249	Miscellaneous wood products....	8	130	356	118	220	302	638	20	200	938
25	Furniture and fixtures.....	15	1,148	4,191	938	2,044	3,317	7,168	123	1,489	5,671
251	Household furniture.....	7	405	1,497	324	678	1,119	2,525	55	(D)	(D)
252	Office furniture.....	5	462	1,646	392	900	1,363	1,920	31	(D)	(D)
26	Pulp, paper and products....	15	945	4,054	818	1,867	3,109	8,011	399	1,167	6,424
261	Pulp, paper and board.....	5	450	2,193	385	913	1,688	4,460	271	(D)	(D)
267	Paperboard containers.....	4	179	765	149	358	518	1,292	80	(D)	(D)
269	Pulp, paper and products, nec..	6	316	1,096	283	595	903	2,258	48	(D)	(D)
27	Printing and publishing.....	53	782	3,337	471	843	1,913	5,557	149	756	3,873
271	Newspapers.....	13	547	2,475	285	498	1,278	4,192	71	511	2,850
275	Commercial printing.....	29	173	603	138	257	438	970	52	184	752
28	Chemicals and products.....	15	613	2,230	507	956	1,672	3,919	289	824	4,858
29	Petroleum and coal products..	3	13	(D)	7	(D)	(D)	(D)	(D)	224	(D)
30	Rubber products.....	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...	...
31	Leather and leather goods...	15	1,935	5,206	1,697	3,014	3,905	7,629	186	2,181	8,940
314	Footwear, except rubber.....	7	1,607	4,137	1,422	2,474	3,085	6,506	173	1,710	7,042
32	Stone, clay, & glass prod...	17	254	913	167	313	519	922	94	318	(D)
329	Nonmet. mineral products, nec..	4	174	679	111	206	363	557	9	(D)	(D)
33	Primary metal industries....	16	5,726	26,157	4,635	8,988	19,608	47,282	1,304	5,806	36,472
332	Iron and steel foundries.....	5	389	1,479	335	598	1,129	2,003	51	773	3,977
339	Primary metal industries, nec..	6	2,714	12,769	2,169	4,298	9,431	16,837	918	(D)	(D)
34	Fabricated metal products...	38	4,544	18,771	3,619	7,060	13,764	32,175	721	4,872	24,063
342	Cutlery, tools, and hardware...	5	1,138	4,162	1,013	1,947	3,397	6,296	198	1,412	6,726
343	Heating and plumbing equipment.	6	605	2,355	456	925	1,561	3,513	65	(D)	(D)
344	Structural metal products.....	6	240	1,154	205	460	875	1,756	58	601	2,472
346	Metal stamping and coating....	14	2,471	10,785	1,865	3,562	7,672	20,154	392	(D)	(D)
35	Machinery, exc. electrical..	41	6,544	26,476	5,187	10,383	19,785	51,851	1,852	7,422	30,233
355	Special-industry machinery, nec	10	675	2,799	517	1,032	2,019	5,867	228	(D)	(D)
358	Service and household machines.	6	1,010	4,962	792	1,608	3,400	7,706	1,036	871	5,902
359	Miscellaneous machinery parts..	8	116	452	102	235	358	657	108	(D)	(D)
36	Electrical machinery.....	11	4,608	19,222	3,048	5,900	11,153	55,408	850	2,948	(D)
37	Transportation equipment....	6	2,536	11,099	2,021	4,168	8,379	21,485	248	950	3,723
38	Instruments & related prod..	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
39	Miscellaneous manufactures <sup>4</sup> .	21	4,774	19,635	4,000	7,690	15,777	35,467	1,523	7,198	33,760
394	Toys and sporting goods.....	6	335	1,000	278	573	742	1,517	23	(D)	(D)

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industry groups (3-digit) are not shown. Industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "All industries" line.<sup>2</sup>The 1954 and 1947 "All industries" totals are not strictly comparable because of differences in scope between the two years in Major group 20 (see footnote 3).<sup>3</sup>Comparable data for Major group 20 are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude plants processing and distributing fluid milk which in 1954 were classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Footnotes for Table 5—New York—Continued

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
20	Food and kindred products except Subgroup 202, Dairy Products:				
	Albany-Schenectady-Troy Standard Metropolitan Area...	3,839	34,142	4,510	31,858
	Binghamton Standard Metropolitan Area.....	966	7,250	1,100	7,000
	Buffalo Standard Metropolitan Area.....	13,830	132,408	15,845	138,432
	New York-Northeastern New Jersey Standard Metropolitan Area.....	118,128	1,171,021	109,108	829,709
	Rochester Standard Metropolitan Area.....	7,662	61,745	7,350	42,405
	Syracuse Standard Metropolitan Area.....	2,285	16,045	2,337	10,661
	Utica-Rome Standard Metropolitan Area.....	1,930	23,556	2,019	13,653

<sup>4</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordinance and Accessories." (Establishments which are Government-owned and operated are not included.)



## MANUFACTURES—AREA STATISTICS

Table 6.--GENERAL STATISTICS FOR PRINCIPAL INDUSTRIAL COUNTIES, BY MAJOR INDUSTRY GROUP: 1954 AND 1947

(Principal industrial counties include all counties with 20,000 or more manufacturing employees. For explanation of column captions see Introduction)

Code	Major industry group	1954								1947	
		Establish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendit- ures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
ALBANY COUNTY											
	All industries, total <sup>1</sup> .....	336	22,500	91,788	17,143	34,131	62,339	159,022	7,101	<sup>2</sup> 22,273	<sup>2</sup> 116,711
20	Food and kindred products.....	63	3,501	15,226	2,283	4,837	9,037	30,292	2,096	3,167	23,898
22	Textile mill products.....	23	2,213	8,266	1,847	3,795	6,133	13,238	785	3,236	14,925
23	Apparel and related products..	31	2,087	4,944	1,924	3,495	4,213	6,610	138	1,717	5,483
24	Lumber and wood products.....	9	104	385	92	187	285	543	20	139	588
25	Furniture and fixtures.....	12	156	556	126	249	386	1,049	27	212	914
26	Pulp, paper and products.....	17	1,624	6,918	1,356	3,002	5,235	11,932	894	1,856	10,774
27	Printing and publishing.....	62	2,791	12,547	1,970	3,684	8,545	20,109	649	2,323	10,961
28	Chemicals and products.....	17	397	1,723	316	652	1,212	3,860	361	355	7,809
32	Stone, clay, & glass products..	17	3,077	13,381	1,931	3,580	6,980	29,700	656	2,390	(D)
33	Primary metal industries.....	9	2,402	11,254	1,958	4,144	8,822	13,286	332	1,881	(D)
34	Fabricated metal products.....	23	988	4,247	765	1,501	2,375	6,183	194	568	2,556
35	Machinery, except electrical..	21	766	3,395	613	1,211	2,463	5,635	167	981	(D)
39	Miscellaneous manufactures <sup>3</sup> ...	18	1,307	4,402	1,076	2,032	3,086	8,098	417	1,961	7,451
BRONX COUNTY <sup>4</sup>											
	All industries, total <sup>1</sup> .....	2,078	52,472	184,843	42,990	81,879	132,417	323,030	8,256	<sup>2</sup> 41,323	<sup>2</sup> 194,500
20	Food and kindred products.....	210	7,302	31,409	4,378	9,314	17,295	58,002	1,726	5,244	30,200
23	Apparel and related products..	572	12,574	28,413	12,028	20,339	25,584	39,713	354	9,828	29,262
24	Lumber and wood products.....	43	572	2,554	460	960	1,756	3,477	37	350	1,906
25	Furniture and fixtures.....	140	1,971	6,852	1,599	3,226	5,021	11,885	484	1,938	9,024
26	Pulp, paper and products.....	45	1,811	6,542	1,410	2,885	4,030	12,855	278	1,153	6,561
27	Printing and publishing.....	104	2,794	10,683	2,022	3,809	8,200	15,466	846	2,929	13,982
28	Chemicals and products.....	58	1,767	6,216	1,372	2,666	4,213	24,839	403	1,192	8,992
34	Fabricated metal products.....	264	6,518	27,469	5,421	10,940	20,120	44,091	1,284	4,670	27,021
35	Machinery, except electrical..	93	2,444	11,294	1,921	3,720	8,299	19,566	244	2,429	16,105
36	Electrical machinery.....	65	2,242	8,613	1,801	3,641	6,066	20,436	284	1,604	7,507
37	Transportation equipment.....	25	881	3,816	750	1,522	2,944	5,563	231	865	3,238
39	Miscellaneous manufactures <sup>3</sup> ...	238	5,892	18,738	5,080	9,608	13,709	30,581	883	4,084	19,384
Broome County is coextensive with the Binghamton Standard Metropolitan Area. Data for this area are shown in Table 5.											
CHAUTAUQUA COUNTY											
	All industries, total <sup>1</sup> .....	326	22,743	92,010	18,884	38,807	72,491	162,708	5,682	<sup>2</sup> 22,560	<sup>2</sup> 109,776
20	Food and kindred products.....	81	1,866	5,894	1,411	2,882	3,822	14,028	1,570	1,542	9,883
22	Textile mill products.....	5	1,262	3,584	1,171	2,361	3,140	4,592	277	2,814	11,466
24	Lumber and wood products.....	38	807	2,243	754	1,388	1,987	3,345	114	1,258	5,164
25	Furniture and fixtures.....	42	4,457	17,232	3,769	7,754	14,253	32,041	877	4,937	24,838
27	Printing and publishing.....	23	542	2,249	422	795	1,750	3,964	103	359	1,549
32	Stone, clay, & glass products..	11	168	634	112	220	349	927	55	230	1,167
33	Primary metal industries.....	5	2,072	10,472	1,804	3,652	8,959	14,025	206	2,360	(D)
34	Fabricated metal products.....	42	5,092	23,345	4,040	8,622	17,806	42,057	1,486	3,935	21,482
35	Machinery, except electrical..	41	3,865	16,963	3,193	6,650	13,052	32,575	746	3,175	13,908
36	Electrical machinery.....	5	354	1,083	256	496	669	2,013	35	391	918
37	Transportation equipment.....	4	1,053	5,310	843	1,962	4,076	7,505	86	972	(D)
DUTCHESS COUNTY											
	All industries, total <sup>1</sup> .....	232	20,191	93,723	15,047	31,260	61,990	153,288	6,942	<sup>2</sup> 14,692	<sup>2</sup> 70,587
20	Food and kindred products.....	39	618	2,471	389	769	1,413	4,058	194	(NA)	(NA)
22	Textile mill products.....	12	1,023	4,025	900	1,944	3,137	6,139	204	(NA)	(NA)
23	Apparel and related products..	44	2,267	6,012	2,106	3,745	5,292	8,516	50	(NA)	(NA)
24	Lumber and wood products.....	8	123	458	95	192	306	718	89	(NA)	(NA)
25	Furniture and fixtures.....	5	218	747	203	376	654	1,142	9	(NA)	(NA)
26	Pulp, paper and products.....	8	872	3,859	754	1,538	3,245	5,214	396	(NA)	(NA)
27	Printing and publishing.....	25	1,693	7,633	1,184	2,101	4,592	20,426	167	(NA)	(NA)
30	Rubber products.....	3	594	2,247	495	1,075	1,758	4,339	29	(NA)	(NA)
31	Leather and leather goods.....	3	259	678	239	505	596	895	7	(NA)	(NA)
32	Stone, clay, & glass products..	12	227	947	204	455	836	1,711	346	(NA)	(NA)
35	Machinery, except electrical..	29	10,975	60,194	7,305	16,241	36,465	92,499	5,128	(NA)	(NA)
36	Electrical machinery.....	6	351	1,009	316	596	821	1,785	27	(NA)	(NA)
39	Miscellaneous manufactures <sup>3</sup> ...	13	435	1,793	376	829	1,498	2,572	62	(NA)	(NA)

See footnotes at end of table.

Table 6.—GENERAL STATISTICS FOR PRINCIPAL INDUSTRIAL COUNTIES, BY MAJOR INDUSTRY GROUP: 1954 AND 1947—Continued  
(Principal industrial counties include all counties with 20,000 or more manufacturing employees. For explanation of column captions see Introduction)

Code	Major industry group	1954								1947	
		Establish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendit- ures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
ERIE COUNTY											
	All industries, total <sup>1</sup> .....	1,529	148,247	679,214	114,180	228,112	484,674	1,213,897	109,034	<sup>2</sup> 139,985	<sup>2</sup> 752,621
20	Food and kindred products.....	316	15,318	65,967	10,736	21,937	43,358	144,607	6,760	14,748	132,459
22	Textile mill products.....	13	1,188	3,873	1,044	2,027	3,019	6,472	356	1,295	5,605
23	Apparel and related products..	73	3,074	9,570	2,633	4,557	6,809	12,763	155	(D)	(D)
24	Lumber and wood products.....	48	647	2,035	543	965	1,293	2,996	114	541	1,650
25	Furniture and fixtures.....	39	2,103	8,950	1,640	3,182	6,221	16,910	456	2,639	16,141
26	Pulp, paper and products.....	32	2,751	10,719	2,267	4,655	7,925	19,143	514	3,155	15,080
27	Printing and publishing.....	188	5,368	24,791	3,579	6,765	15,250	39,349	1,608	4,583	29,014
28	Chemicals and products.....	95	7,963	38,869	5,436	10,916	23,557	82,604	8,551	8,963	73,844
29	Petroleum and coal products...	10	2,634	12,424	2,206	4,277	9,654	22,903	3,470	2,350	20,125
30	Rubber products.....	12	3,273	17,259	2,471	5,306	12,235	25,666	2,773	4,058	26,513
31	Leather and leather goods.....	10	184	520	156	297	416	948	(D)	(D)	(D)
32	Stone, clay, & glass products.	73	3,430	14,795	2,872	6,005	11,385	31,766	2,179	2,534	(D)
33	Primary metal industries.....	63	30,221	138,213	25,308	47,142	109,077	261,505	11,844	31,302	123,842
34	Fabricated metal products.....	177	8,190	36,914	6,331	12,604	25,390	64,708	2,472	11,751	59,867
35	Machinery, except electrical..	208	13,324	63,494	9,167	18,368	38,661	92,536	4,159	13,153	65,466
36	Electrical machinery.....	25	10,131	45,549	6,676	13,052	26,212	79,415	1,936	8,905	31,753
37	Transportation equipment.....	38	30,319	151,678	24,668	53,151	119,605	257,279	60,095	19,574	(D)
KINGS COUNTY <sup>4</sup>											
	All industries, total <sup>1</sup> .....	7,851	235,634	857,477	196,205	369,517	623,083	1,530,186	45,032	<sup>2</sup> 229,632	<sup>2</sup> 1,178,730
20	Food and kindred products.....	617	31,627	140,222	21,241	41,687	82,665	276,673	8,993	29,153	211,770
22	Textile mill products.....	459	12,029	40,479	10,941	20,813	33,181	69,490	3,170	9,301	44,073
23	Apparel and related products..	2,217	57,468	152,047	54,199	91,183	134,068	214,125	2,026	52,229	194,330
24	Lumber and wood products.....	176	1,922	6,679	1,611	3,100	4,769	11,253	169	1,797	8,199
25	Furniture and fixtures.....	522	8,387	31,247	7,067	13,604	23,226	50,832	1,048	7,684	38,383
26	Pulp, paper and products.....	232	9,574	37,184	7,952	15,961	25,708	65,441	1,560	9,379	51,693
27	Printing and publishing.....	354	6,578	28,094	5,100	9,512	20,325	46,301	1,277	7,782	42,629
28	Chemicals and products.....	311	11,847	52,947	8,100	17,067	31,946	159,331	3,733	11,826	112,330
31	Leather and leather goods.....	267	8,120	23,725	7,328	13,372	19,406	35,597	436	8,529	33,231
32	Stone, clay, & glass products.	162	3,207	12,341	2,735	5,524	9,099	25,960	1,655	2,439	11,238
33	Primary metal industries.....	86	3,087	13,046	2,565	5,263	9,747	23,841	953	2,948	15,969
34	Fabricated metal products.....	799	22,901	92,547	18,869	37,641	66,327	158,564	7,930	18,269	96,495
35	Machinery, except electrical..	417	12,410	55,016	9,723	19,653	37,852	95,189	2,478	17,835	87,007
36	Electrical machinery.....	174	12,169	44,259	9,978	19,312	30,246	78,563	1,907	8,681	41,397
37	Transportation equipment.....	88	6,597	28,721	5,417	10,153	21,590	42,930	3,151	16,984	75,490
38	Instruments & related products	127	4,586	19,139	3,709	7,974	13,932	35,633	287	4,888	21,360
39	Miscellaneous manufactures <sup>3</sup> ...	785	21,563	72,572	18,472	35,424	54,116	128,466	3,708	17,041	74,864
Monroe County is coextensive with the Rochester Standard Metropolitan Area. Data for this area are shown in Table 5.											
NASSAU COUNTY											
	All industries, total <sup>1</sup> .....	1,143	69,327	336,733	49,115	97,528	220,187	554,901	12,086	<sup>2</sup> 25,845	<sup>2</sup> 115,467
20	Food and kindred products.....	62	934	3,335	637	1,290	2,062	7,789	427	486	2,424
22	Textile mill products.....	22	322	922	277	594	727	1,941	141	450	2,670
23	Apparel and related products..	109	2,439	6,278	2,298	3,973	5,473	9,505	110	1,865	4,833
24	Lumber and wood products.....	52	536	2,277	366	718	1,370	3,404	102	254	1,388
25	Furniture and fixtures.....	57	1,441	5,782	1,083	2,268	3,699	11,024	214	169	698
26	Pulp, paper and products.....	10	798	3,325	564	1,234	2,015	7,109	395	(D)	(D)
27	Printing and publishing.....	150	6,218	25,640	2,866	5,364	11,747	52,496	1,021	5,184	(D)
28	Chemicals and products.....	34	804	2,875	558	1,043	1,659	6,006	354	80	422
31	Leather and leather goods.....	11	391	1,046	337	632	710	1,332	23	377	(D)
32	Stone, clay, & glass products.	44	560	2,387	457	952	1,777	3,761	245	565	2,266
33	Primary metal industries.....	15	760	3,154	631	1,299	2,357	4,878	459	420	(D)
34	Fabricated metal products.....	158	4,519	21,934	3,570	7,465	15,032	38,277	1,279	1,503	5,910
35	Machinery, except electrical..	137	2,552	11,422	2,192	4,705	9,150	22,636	656	548	2,178
36	Electrical machinery.....	65	3,238	14,435	2,562	4,901	10,405	25,367	412	6,946	(D)
37	Transportation equipment.....	57	15,354	88,080	12,702	26,242	70,134	126,737	1,977	4,847	(D)
38	Instruments & related products	37	3,290	17,998	2,447	5,443	11,950	23,063	926	475	1,731
39	Miscellaneous manufactures <sup>3</sup> ...	115	25,069	125,300	15,497	29,328	69,713	208,141	3,004	1,598	6,954

See footnotes at end of table.



## MANUFACTURES—AREA STATISTICS

Table 6.—GENERAL STATISTICS FOR PRINCIPAL INDUSTRIAL COUNTIES, BY MAJOR INDUSTRY GROUP: 1954 AND 1947--Continued

(Principal industrial counties include all counties with 20,000 or more manufacturing employees. For explanation of column captions see Introduction)

Code	Major industry group	1954								1947	
		Establish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
		NEW YORK COUNTY <sup>4</sup>									
	All industries, total <sup>1</sup> .....	25,040	523,432	2,061,173	397,286	731,268	1,279,763	3,761,244	55,451	<sup>2</sup> 554,701	<sup>2</sup> 3,446,847
20	Food and kindred products.....	438	21,860	91,764	15,497	31,571	57,158	191,212	6,032	23,469	149,965
21	Tobacco manufactures.....	59	459	1,092	408	736	861	3,141	16	980	3,423
22	Textile mill products.....	714	12,046	46,002	9,774	18,140	28,605	92,579	2,016	13,096	85,387
23	Apparel and related products..	11,716	240,297	836,029	202,787	355,858	591,800	1,472,389	10,724	252,344	1,550,260
24	Lumber and wood products.....	229	1,838	6,198	1,540	3,114	4,525	11,157	95	1,639	7,959
25	Furniture and fixtures.....	579	7,235	29,588	5,898	11,543	20,626	46,853	625	8,128	43,469
26	Pulp, paper and products.....	315	8,454	32,150	6,998	14,037	21,748	51,979	1,507	8,786	43,886
27	Printing and publishing.....	3,765	112,110	584,878	57,153	106,831	260,784	1,152,459	19,407	116,676	850,507
28	Chemicals and products.....	393	7,974	34,982	4,504	8,966	13,635	74,038	1,514	9,177	72,154
30	Rubber products.....	26	277	799	232	416	586	1,323	128	412	1,097
31	Leather and leather goods.....	982	20,200	63,290	17,935	34,858	49,470	101,054	917	21,915	115,711
32	Stone, clay, & glass products.	198	2,178	7,558	1,776	3,529	5,317	11,907	209	3,064	14,421
33	Primary metal industries.....	71	1,803	8,459	1,606	3,280	6,801	9,113	764	2,060	11,481
34	Fabricated metal products.....	889	12,008	44,709	9,874	19,414	31,277	77,686	1,647	13,166	71,700
35	Machinery, except electrical..	553	6,330	27,228	4,896	10,156	18,086	45,068	983	7,543	43,168
36	Electrical machinery.....	293	10,506	41,793	8,185	16,085	26,757	74,005	2,815	15,038	70,382
37	Transportation equipment.....	36	803	3,932	667	1,407	2,873	6,397	55	1,716	10,717
38	Instruments & related products	320	6,268	28,517	4,750	9,274	15,767	47,858	1,023	10,890	77,486
39	Miscellaneous manufactures <sup>3</sup> ...	3,459	50,759	172,098	42,785	82,020	123,084	290,895	4,968	44,529	223,549
		NIAGARA COUNTY									
	All industries, total <sup>1</sup> .....	300	52,554	254,659	38,702	78,465	170,623	463,881	30,443	<sup>2</sup> 43,891	<sup>2</sup> 270,610
20	Food and kindred products.....	57	1,424	4,934	1,165	2,435	3,864	10,815	587	1,598	10,017
22	Textile mill products.....	5	731	2,723	571	1,156	1,782	5,853	326	832	3,714
23	Apparel and related products..	6	294	826	150	273	452	1,119	8	(D)	(D)
24	Lumber and wood products.....	15	356	1,406	306	577	956	2,196	50	587	2,635
25	Furniture and fixtures.....	4	140	488	117	239	328	902	53	166	1,231
26	Pulp, paper and products.....	25	4,151	18,893	3,484	7,759	14,955	38,092	5,118	4,035	25,003
27	Printing and publishing.....	24	2,153	9,917	1,651	3,385	7,559	18,481	722	2,466	16,166
28	Chemicals and products.....	31	9,255	48,438	6,226	12,513	28,873	122,172	8,614	7,838	65,006
29	Petroleum and coal products...	6	274	1,123	227	462	869	2,360	113	368	3,003
32	Stone, clay, & glass products.	13	4,106	19,906	3,136	6,007	14,509	36,036	1,528	4,762	(D)
33	Primary metal industries.....	16	5,048	23,708	3,815	7,389	16,435	49,131	3,827	7,139	39,186
34	Fabricated metal products.....	24	502	2,158	398	777	1,528	3,299	204	381	2,034
35	Machinery, except electrical..	39	1,689	8,407	1,247	2,593	5,691	13,420	226	1,864	10,485
36	Electrical machinery.....	11	4,757	22,216	3,636	7,009	15,377	33,423	2,528	5,511	31,752
37	Transportation equipment.....	9	15,838	81,592	11,023	22,643	51,260	113,388	6,048	4,067	(D)
		ONEIDA COUNTY									
	All industries, total <sup>1</sup> .....	375	30,402	123,558	23,699	46,000	87,869	235,749	7,826	<sup>2</sup> 35,743	<sup>2</sup> 169,831
20	Food and kindred products.....	110	2,282	8,413	1,460	2,990	4,766	17,453	1,685	1,728	(D)
22	Textile mill products.....	13	2,775	8,064	2,471	4,316	6,422	10,420	294	8,873	32,399
23	Apparel and related products..	23	1,111	3,271	1,000	1,724	2,679	4,335	27	1,430	3,849
24	Lumber and wood products.....	24	158	469	142	275	373	919	61	199	825
25	Furniture and fixtures.....	10	433	1,537	350	739	1,167	2,552	56	544	1,824
26	Pulp, paper and products.....	8	679	2,985	584	1,361	2,284	6,249	361	912	(D)
27	Printing and publishing.....	43	693	3,005	415	722	1,712	4,982	115	648	3,487
32	Stone, clay, & glass products.	13	237	854	155	281	474	788	85	(D)	(D)
34	Fabricated metal products.....	31	4,264	17,772	3,389	6,628	13,060	30,602	687	4,406	21,481
35	Machinery, except electrical..	31	1,556	7,318	1,228	2,481	5,007	11,007	1,214	1,614	(D)
		Onondaga County is coextensive with the Syracuse Standard Metropolitan Area. Data for this area are shown in Table 5.									
		QUEENS COUNTY <sup>4</sup>									
	All industries, total <sup>1</sup> .....	2,772	125,788	519,008	99,197	195,525	352,784	944,623	30,023	<sup>2</sup> 97,013	<sup>2</sup> 582,269
20	Food and kindred products.....	209	20,727	92,654	13,415	26,471	51,184	206,534	7,938	17,000	141,748
22	Textile mill products.....	168	4,948	17,341	4,136	7,856	11,809	28,742	928	3,914	18,088
23	Apparel and related products..	383	10,838	29,995	9,871	17,018	24,582	46,149	570	9,545	34,330
24	Lumber and wood products.....	70	1,609	5,760	1,340	2,744	4,211	8,604	260	1,450	7,977
25	Furniture and fixtures.....	150	3,234	12,367	2,691	5,507	9,854	21,412	878	2,273	11,924
26	Pulp, paper and products.....	64	6,336	26,997	5,189	10,760	19,488	47,801	2,951	5,147	39,929

See footnotes at end of table.



Table 6.--GENERAL STATISTICS FOR PRINCIPAL INDUSTRIAL COUNTIES, BY MAJOR INDUSTRY GROUP: 1954 AND 1947--Continued  
(Principal industrial counties include all counties with 20,000 or more manufacturing employees. For explanation of column captions see Introduction)

Code	Major industry group	1954								1947	
		Establish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
27	Printing and publishing.....	159	5,127	25,834	3,754	7,380	17,613	39,795	2,176	3,805	24,076
28	Chemicals and products.....	134	3,884	17,779	2,717	5,499	9,734	47,974	777	5,764	63,547
30	Rubber products.....	9	897	2,597	770	1,486	2,169	6,489	181	1,170	(D)
31	Leather and leather goods....	33	2,535	9,324	2,171	4,512	7,414	14,963	74	2,504	11,498
32	Stone, clay, & glass products.	92	1,326	5,373	1,098	2,286	3,841	10,796	254	1,257	8,772
33	Primary metal industries.....	47	2,241	9,679	1,874	3,760	7,323	28,085	1,340	2,192	15,780
34	Fabricated metal products.....	384	11,650	48,793	9,707	19,779	35,479	81,014	2,956	10,126	53,517
35	Machinery, except electrical..	255	4,909	22,897	3,950	8,355	16,477	37,304	984	3,206	19,346
36	Electrical machinery.....	150	13,963	58,929	10,942	21,790	39,729	96,418	3,226	6,335	31,420
37	Transportation equipment.....	45	2,441	11,113	1,911	3,962	7,980	18,527	521	2,008	8,161
38	Instruments & related products	105	9,487	45,596	7,510	14,720	31,562	80,038	914	9,905	45,776
39	Miscellaneous manufactures <sup>3</sup> ...	304	19,097	74,164	15,717	30,774	50,916	121,088	2,908	8,911	39,747
SCHENECTADY COUNTY											
	All industries, total <sup>1</sup> .....	137	36,280	185,565	23,543	47,516	111,575	329,134	34,902	<sup>2</sup> 33,925	<sup>2</sup> 133,347
20	Food and kindred products.....	42	847	3,220	457	983	1,517	5,376	301	553	(D)
27	Printing and publishing.....	19	1,294	5,584	947	1,842	4,061	7,908	315	1,078	(D)
28	Chemicals and products.....	6	410	2,496	260	560	1,149	8,018	370	851	(D)
32	Stone, clay, & glass products.	12	1,053	4,357	833	1,655	3,212	7,884	397	1,143	(D)
SUFFOLK COUNTY											
	All industries, total <sup>1</sup> .....	567	41,410	197,756	31,828	66,244	133,516	345,867	6,485	<sup>2</sup> 13,213	<sup>2</sup> 49,115
20	Food and kindred products.....	60	857	2,987	635	1,210	1,715	5,706	415	(NA)	(NA)
22	Textile mill products.....	17	778	2,720	707	1,402	2,241	4,131	172	(NA)	(NA)
23	Apparel and related products..	92	2,474	5,518	2,376	4,051	4,938	7,734	90	(NA)	(NA)
24	Lumber and wood products.....	29	265	915	225	459	677	1,652	136	(NA)	(NA)
25	Furniture and fixtures.....	25	394	1,500	316	623	1,038	2,829	81	(NA)	(NA)
27	Printing and publishing.....	46	388	1,229	219	431	666	2,090	152	(NA)	(NA)
28	Chemicals and products.....	17	249	1,075	195	433	637	3,518	314	(NA)	(NA)
32	Stone, clay, & glass products.	32	267	956	209	444	674	1,795	206	(NA)	(NA)
34	Fabricated metal products.....	53	825	3,057	666	1,305	2,116	5,347	401	(NA)	(NA)
35	Machinery, except electrical..	46	387	1,512	325	679	1,202	2,623	172	(NA)	(NA)
36	Electrical machinery.....	21	1,440	5,029	1,200	2,380	3,725	7,246	216	(NA)	(NA)
37	Transportation equipment.....	59	31,299	164,484	23,278	49,773	108,988	290,451	3,668	(NA)	(NA)
38	Instruments & related products	21	780	3,249	638	1,378	2,411	5,449	146	(NA)	(NA)
39	Miscellaneous manufactures <sup>3</sup> ...	34	797	2,740	658	1,334	1,930	3,795	198	(NA)	(NA)
WESTCHESTER COUNTY											
	All industries, total <sup>1</sup> .....	1,208	51,088	208,532	38,412	75,824	138,849	422,478	15,868	<sup>2</sup> 46,761	<sup>2</sup> 269,484
20	Food and kindred products.....	97	4,190	19,651	2,801	5,796	11,820	52,080	1,632	4,166	46,719
22	Textile mill products.....	26	2,482	8,744	2,088	4,359	6,717	20,789	504	7,586	32,062
23	Apparel and related products..	226	6,488	16,200	6,178	10,372	14,612	22,898	226	7,221	20,889
24	Lumber and wood products.....	23	207	932	145	333	635	1,073	40	445	1,907
25	Furniture and fixtures.....	53	748	2,200	643	1,155	1,622	3,696	113	366	1,173
26	Pulp, paper and products.....	17	321	984	277	529	791	1,591	253	252	918
27	Printing and publishing.....	164	5,359	22,301	2,505	4,863	9,780	52,362	1,488	3,436	26,949
28	Chemicals and products.....	71	2,377	10,735	1,314	2,681	4,409	26,362	651	1,757	14,216
29	Petroleum and coal products...	5	213	1,108	72	158	324	3,425	45	(D)	(D)
31	Leather and leather goods.....	9	156	357	137	230	276	636	7	91	288
32	Stone, clay, & glass products.	28	444	2,093	342	651	1,394	3,506	154	364	1,552
33	Primary metal industries.....	16	3,115	14,753	2,450	5,159	10,953	23,688	3,325	2,137	(D)
34	Fabricated metal products.....	123	3,242	14,315	2,663	5,507	10,097	23,137	1,285	2,769	17,256
35	Machinery, except electrical..	86	3,891	18,391	3,008	6,117	13,411	32,449	1,331	3,360	28,122
36	Electrical machinery.....	88	6,730	27,227	4,926	9,769	17,104	50,144	1,426	4,800	19,965
38	Instruments & related products	39	1,883	8,953	891	1,808	2,996	8,891	738	1,092	4,317
NEW YORK CITY (Consists of Bronx, Kings, New York, Queens and Richmond Counties (Boroughs), New York)											
	All industries, total <sup>1</sup> .....	37,943	947,847	3,666,827	743,913	1,393,848	2,419,787	6,671,465	143,685	933,289	5,497,163
20	Food and kindred products.....	1,496	83,088	364,134	55,410	110,780	212,446	757,403	26,159	76,000	550,000
21	Tobacco manufactures.....	93	952	2,387	811	1,508	1,948	5,008	31	1,783	6,099
22	Textile mill products.....	1,399	30,692	109,944	26,310	49,602	78,116	200,396	6,621	27,500	153,000
23	Apparel and related products..	14,954	322,953	1,050,553	280,519	487,103	779,587	1,777,731	13,752	325,000	1,812,000
24	Lumber and wood products.....	521	5,962	21,237	4,967	9,944	15,291	34,590	565	5,200	26,000

See footnotes at end of table.

## MANUFACTURES—AREA STATISTICS

Table 6.—GENERAL STATISTICS FOR PRINCIPAL INDUSTRIAL COUNTIES, BY MAJOR INDUSTRY GROUP: 1954 AND 1947--Continued

(Principal industrial counties include all counties with 20,000 or more manufacturing employees. For explanation of column captions see Introduction)

Code	Major industry group	1954								1947	
		Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
25	Furniture and fixtures.....	1,395	20,868	80,184	17,289	33,943	58,815	131,127	3,036	20,000	103,000
26	Pulp, paper and products.....	659	26,267	103,247	21,618	43,782	71,222	178,732	6,341	24,600	143,000
27	Printing and publishing.....	4,395	126,864	650,634	68,209	127,830	307,566	1,256,139	23,729	131,400	933,000
28	Chemicals and products.....	910	27,030	119,872	17,810	36,401	64,869	344,972	7,487	30,000	300,000
29	Petroleum and coal products...	28	1,253	6,607	987	1,901	4,869	10,118	1,384	2,400	20,000
30	Rubber products.....	71	2,176	7,441	1,764	3,362	5,342	14,018	455	3,000	13,000
31	Leather and leather goods....	1,320	32,607	101,844	28,999	55,728	80,410	160,092	1,547	34,000	164,000
32	Stone, clay, & glass products...	516	8,273	32,240	6,915	14,188	23,528	66,711	2,559	8,000	43,000
33	Primary metal industries.....	220	7,887	34,345	6,671	13,548	26,291	65,250	3,434	7,800	46,000
34	Fabricated metal products.....	2,351	53,210	214,032	43,993	88,026	153,637	362,260	13,885	46,300	249,000
35	Machinery, except electrical..	1,335	26,313	117,173	20,684	42,252	81,348	199,300	4,725	31,300	167,000
36	Electrical machinery.....	682	38,880	153,594	30,906	60,828	102,798	269,420	8,232	31,700	151,000
37	Transportation equipment.....	205	12,839	57,582	10,440	20,327	42,822	88,012	4,280	24,700	109,000
38	Instruments & related products	592	22,084	101,413	17,234	34,437	66,427	177,567	2,736	27,600	153,000
39	Miscellaneous manufactures <sup>3</sup> ...	4,801	97,604	338,329	82,324	158,317	242,466	572,515	12,518	74,800	359,000

Note: Detailed figures may not add to the total because of independent rounding.

<sup>1</sup> D Withheld to avoid disclosing data for individual companies.<sup>2</sup> In order to avoid disclosing data for individual companies, the statistics for some industry groups are not shown. Industry groups reporting less than 100 employees are also omitted. They are included, however, in the "All industries" line.<sup>3</sup> The 1954 and 1947 "All industries" totals are not strictly comparable because of differences in coverage of loggers and fluid milk distributors. See discussion in Introduction and footnote to Table 4 for comparable figures at the State level.<sup>4</sup> Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)<sup>5</sup> See end of table for summary data for New York City which consists of Bronx, Kings, New York, Queens, and Richmond Counties.

20 Food and kindred products	26 Pulp, paper and products	32 Stone, clay, and glass products	38 Instruments and related products
21 Tobacco manufactures	27 Printing and publishing	33 Primary metal industries	39 Miscellaneous manufactures (Includes Group 19 Ordnance and accessories)
22 Textile mill products	28 Chemicals and products	34 Fabricated metal products	
23 Apparel and related products	29 Petroleum and coal products	35 Machinery, except electrical	
24 Lumber and wood products	30 Rubber products	36 Electrical machinery	
25 Furniture and fixtures	31 Leather and leather goods	37 Transportation equipment	

(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
New York, total.....	50,402	3,812	105	1,707	16,053	1,471	1,791	1,028	5,839	1,407	104	113	1,673	995	494	3,387	2,580	1,041	483	815	5,504
1 to 4 employees.....	17,935	1,393	76	429	4,527	791	746	186	2,640	607	26	36	547	421	120	1,270	1,030	289	147	319	2,335
5 to 9 employees.....	8,763	675	15	318	2,661	278	352	139	1,099	219	28	22	293	189	56	617	490	149	59	149	935
10 to 19 employees.....	8,534	618	3	318	3,147	184	284	171	860	214	19	22	267	161	73	585	409	132	68	116	883
20 to 49 employees.....	8,904	569	6	376	3,949	150	241	224	668	180	15	12	288	118	92	498	363	181	71	95	808
50 to 99 employees.....	3,497	245	3	142	1,314	47	99	128	313	79	3	5	135	48	62	227	126	108	39	56	318
100 to 249 employees.....	1,789	198	...	91	386	19	52	130	168	59	5	6	98	33	40	129	78	83	35	44	135
250 to 499 employees.....	521	68	2	20	49	2	12	36	44	22	5	5	31	12	21	39	34	43	19	12	45
500 to 999 employees.....	255	31	...	9	14	...	4	11	25	16	3	3	13	8	13	16	22	29	14	12	12
1,000 to 2,499 employees.....	150	13	...	3	6	...	1	3	19	9	...	2	1	3	13	6	22	18	19	6	6
2,500 employees and over.....	54	2	...	1	...	...	...	...	3	2	...	...	...	2	4	...	6	9	12	6	7
Albany:																					
1 to 19 employees.....	197	34	...	6	12	8	9	5	51	16	2	1	...	11	2	14	11	2	2	1	10
20 to 99 employees.....	90	19	...	14	11	1	3	7	7	...	...	...	...	2	3	6	9	2	1	...	5
100 employees and over.....	49	10	...	3	8	...	...	5	4	1	...	...	...	4	4	3	1	...	2	1	3
Allegany:																					
1 to 19 employees.....	57	16	...	...	11	...	...	10	3	1	1	...	2	...	7	4	...	...	...	...	2
20 to 99 employees.....	19	4	...	1	4	1	1	...	1	...	...	...	2	1	1	1	2	...	...	...	...
100 employees and over.....	4	...	...	...	...	...	...	...	...	1	...	...	...	...	1	1	1	...	...	...	...
Bronx:																					
1 to 19 employees.....	1,433	152	15	32	324	34	115	25	89	42	...	3	24	45	9	197	76	43	14	31	163
20 to 99 employees.....	570	42	...	22	239	9	24	15	10	12	2	1	8	13	1	55	16	18	9	6	68
100 employees and over.....	75	16	...	2	9	...	1	5	5	4	...	...	5	1	...	12	1	4	2	1	7
Broome:																					
1 to 19 employees.....	152	36	1	2	6	10	2	2	22	3	...	...	6	10	...	7	30	1	...	4	10
20 to 99 employees.....	70	15	...	1	5	2	1	4	5	2	...	...	1	8	3	2	12	4	3	...	1
100 employees and over.....	67	4	...	1	3	1	1	2	3	1	...	...	3	30	...	2	2	5	3	1	3
Cattaraugus:																					
1 to 19 employees.....	81	27	...	1	13	2	...	15	1	...	...	...	3	2	9	4	...	1	...	...	2
20 to 99 employees.....	41	14	...	1	...	2	2	...	2	1	...	...	...	...	1	7	6	...	...	...	5
100 employees and over.....	17	1	...	...	2	3	...	...	1	1	...	...	1	1	...	3	1	3	...	...	...
Cayuga:																					
1 to 19 employees.....	90	32	...	...	4	7	2	1	14	4	1	...	1	1	4	6	6	1	...	...	6
20 to 99 employees.....	28	9	...	1	2	1	...	...	3	1	...	...	2	1	1	1	2	1	...	...	3
100 employees and over.....	16	1	...	3	1	...	...	...	...	...	...	...	2	...	2	...	2	2	...	...	3
Chautauqua:																					
1 to 19 employees.....	197	57	...	1	5	32	14	1	17	6	2	1	...	9	1	22	20	1	2	1	5
20 to 99 employees.....	73	20	...	1	3	4	9	2	4	...	...	...	...	1	2	10	14	3	...	...	...
100 employees and over.....	56	4	...	3	3	2	19	...	2	...	...	...	...	1	2	10	7	1	2	...	...
Chemung:																					
1 to 19 employees.....	62	22	...	2	2	4	1	...	11	2	1	...	...	2	...	4	6	...	...	2	3
20 to 99 employees.....	27	9	...	...	1	...	2	1	1	...	...	...	2	2	1	6	3	1	...	...	...
100 employees and over.....	20	...	...	1	...	1	...	2	3	...	...	...	...	1	2	1	4	1	4	...	...
Chenango:																					
1 to 19 employees.....	63	12	...	2	5	20	...	9	1	...	...	...	2	3	...	1	1	2	1	4	...
20 to 99 employees.....	22	6	...	2	1	3	...	2	...	...	...	...	1	1	...	4	1	1	...	...	...
100 employees and over.....	11	1	...	1	...	...	...	...	3	...	...	...	1	...	...	1	1	2	...	...	1
Clinton:																					
1 to 19 employees.....	42	11	...	...	1	16	...	1	5	...	1	1	...	2	...	1	...	1	...	...	2
20 to 99 employees.....	13	5	...	...	...	1	...	4	1	...	...	...	...	1	1	...	...	...	...	...	...
100 employees and over.....	6	...	...	...	...	...	...	4	...	1	...	...	...	...	...	...	1	...	...	...	...
Columbia:																					
1 to 19 employees.....	58	17	...	7	3	6	...	5	3	...	...	...	...	3	1	3	4	...	1	1	4
20 to 99 employees.....	27	3	...	5	9	...	1	...	1	3	...	...	...	...	...	4	...	...	...	...	...
100 employees and over.....	11	1	...	1	...	...	...	1	...	...	...	...	...	2	2	...	2	...	1	...	1
Cortland:																					
1 to 19 employees.....	47	14	...	...	2	11	1	1	4	4	...	...	1	3	1	1	2	...	1	...	1
20 to 99 employees.....	24	8	...	1	4	3	...	1	1	1	...	...	...	...	...	2	2	...	1	...	...
100 employees and over.....	15	2	...	2	5	...	...	...	...	...	...	...	...	...	1	1	...	2	1	...	1
Delaware:																					
1 to 19 employees.....	67	12	...	...	37	2	...	8	2	...	...	...	...	2	...	1	...	...	1	1	...
20 to 99 employees.....	18	5	...	1	...	3	2	...	2	1	...	...	...	1	1	...	...	...	...	...	1
100 employees and over.....	3	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
Dutchess:																					
1 to 19 employees.....	141	31	...	3	14	7	3	4	19	7	2	...	...	11	...	6	14	4	4	2	10
20 to 99 employees.....	59	7	...	6	24	1	1	2	3	...	...	1	2	...	2	1	7	...	...	...	2
100 employees and over.....	32	1	1	3	6	...	1	2	3	...	...	2	1	1	...	...	8	2	...	...	1
Erie:																					
1 to 19 employees.....	937	196	2	3	48	39	24	9	146	59	...	6	8	44	18	114	135	12	13	14	47
20 to 99 employees.....	374	78	...	5	15	9	8	15	33	24	4	1	1	18	18	45	51	6	10	5	28
100 employees and over.....	218	42	...	5	10	...	7	8	9	12	6	5	1	11	27	18	22	7	15	3	10
Essex:																					
1 to 19 employees.....	72	14	...	4	1	37	...	1	7	1	1	...	...	2	...	...	2	...	1	...	1
20 to 99 employees.....	8	...	...	...	...	8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	4	...	...	...	...	...	1	3	...	...	...	...	...	...	...	...	...	...	...	...	...
Franklin:																					
1 to 19 employees.....	58	19	...	...	21	...	...	8	2	...	...	...	4	...	1	...	2	...	...	...	1
20 to 99 employees.....	13	3	...	...	1	3	...	2	...	...	...	...	2	1	1	...	...	...	...	...	...
100 employees and over.....	5	...	...	...	1	1	...	...	...	...	...	...	3	...	...	...	...	...	...	...	...



## MANUFACTURES—AREA STATISTICS

Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954—Continued  
(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Fulton:																					
1 to 19 employees.....	188	12	...	6	31	13	...	4	3	1	...	...	104	3	...	1	7	...	...	1	2
20 to 99 employees.....	67	3	...	4	10	1	...	...	1	1	...	...	44	...	...	...	1	...	...	...	2
100 employees and over.....	18	...	...	4	2	...	...	...	1	...	...	...	10	...	...	...	...	1	...	...	...
Genesee:																					
1 to 19 employees.....	45	17	...	1	1	1	1	...	6	1	3	...	...	1	...	3	9	...	...	...	1
20 to 99 employees.....	19	5	...	2	1	...	...	1	3	2	...	...	...	...	...	1	4	...	...	...	...
100 employees and over.....	16	2	...	...	...	...	...	2	...	...	...	...	1	3	1	2	3	1	1	...	...
Greene:																					
1 to 19 employees.....	44	9	1	...	2	11	4	1	2	3	...	...	...	3	2	2	2	1	...	...	...
20 to 99 employees.....	12	1	...	...	5	...	...	...	2	...	...	...	...	1	...	1	1	1	1	...	...
100 employees and over.....	6	...	...	...	1	...	...	...	...	...	...	...	...	3	...	...	1	...	1	...	...
Hamilton:																					
1 to 19 employees.....	20	1	...	...	...	18	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	4	...	...	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Herkimer:																					
1 to 19 employees.....	75	22	...	2	1	18	1	3	8	2	1	1	2	4	...	4	5	1	...	...	...
20 to 99 employees.....	33	1	...	1	5	5	2	4	2	...	...	...	6	...	...	2	2	...	...	...	3
100 employees and over.....	20	2	...	2	2	1	2	...	...	...	...	...	4	...	1	1	3	...	1	...	1
Jefferson:																					
1 to 19 employees.....	105	38	...	1	1	9	1	8	15	2	2	2	...	5	...	3	6	2	2	4	4
20 to 99 employees.....	25	7	...	...	3	1	...	4	2	1	...	...	...	...	...	...	5	...	1	1	...
100 employees and over.....	15	1	...	...	1	...	...	9	1	1	...	...	...	...	...	...	...	...	1	1	...
Kings:																					
1 to 19 employees.....	5,265	423	16	273	1,317	151	402	117	298	233	9	24	171	135	52	566	318	88	51	95	526
20 to 99 employees.....	2,216	133	...	171	839	25	114	92	44	64	1	4	74	24	28	188	85	62	24	24	220
100 employees and over.....	370	61	...	15	61	...	6	23	12	14	1	3	22	3	6	45	14	24	13	8	39
Lewis:																					
1 to 19 employees.....	45	6	...	...	...	33	...	3	3	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	13	1	...	...	1	3	...	5	...	...	...	...	...	1	...	...	1	...	...	...	1
100 employees and over.....	5	...	...	...	...	...	...	5	...	...	...	...	...	...	...	...	...	...	...	...	...
Livingston:																					
1 to 19 employees.....	40	10	...	...	...	2	...	1	14	2	1	...	...	1	...	3	3	1	...	...	2
20 to 99 employees.....	11	1	...	...	...	1	...	1	...	3	...	...	...	...	1	...	...	2	...	...	2
100 employees and over.....	9	2	...	...	1	...	...	...	1	...	...	...	1	1	...	1	1	1	...	...	...
Madison:																					
1 to 19 employees.....	45	8	...	...	...	9	3	1	5	3	...	...	...	3	...	3	5	1	...	...	4
20 to 99 employees.....	18	4	...	...	...	...	2	2	1	1	...	...	...	1	1	1	3	...	...	...	2
100 employees and over.....	4	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1	...	2
Monroe:																					
1 to 19 employees.....	649	130	...	2	18	19	17	15	109	29	1	3	13	22	13	56	111	13	5	20	53
20 to 99 employees.....	204	43	...	...	12	6	11	12	18	5	2	...	2	7	8	27	25	5	...	11	10
100 employees and over.....	126	22	...	4	9	...	3	8	9	2	...	...	2	1	3	7	14	9	3	19	11
Montgomery:																					
1 to 19 employees.....	61	19	...	5	8	2	1	2	9	3	...	...	2	3	1	1	1	...	...	...	4
20 to 99 employees.....	33	3	...	5	12	...	...	2	3	...	...	...	4	...	...	...	1	...	...	...	3
100 employees and over.....	12	2	...	4	3	...	...	1	...	...	...	...	1	...	...	1	...	...	...	...	...
Nassau:																					
1 to 19 employees.....	859	55	1	19	60	46	47	5	132	27	5	1	5	36	5	117	119	35	42	24	78
20 to 99 employees.....	223	5	...	2	46	5	7	2	12	6	1	...	6	8	8	34	17	24	9	9	22
100 employees and over.....	61	2	...	1	3	1	3	3	6	1	...	...	...	...	2	7	1	6	6	4	15
New York:																					
1 to 19 employees.....	18,498	324	54	536	7,945	211	492	210	2,890	325	5	22	714	171	56	749	476	213	24	250	2,831
20 to 99 employees.....	5,905	77	5	168	3,518	16	82	85	714	56	...	4	231	26	14	131	72	60	10	55	581
100 employees and over.....	637	37	...	10	253	2	5	20	161	12	...	...	37	1	1	9	5	20	2	15	47
Niagara:																					
1 to 19 employees.....	163	43	...	...	5	9	1	7	18	12	3	...	1	7	5	15	24	3	2	1	7
20 to 99 employees.....	72	13	...	2	...	5	3	8	3	5	2	...	1	2	5	9	11	1	...	...	2
100 employees and over.....	65	1	...	3	1	1	...	10	3	14	1	...	...	4	6	...	4	7	7	1	2
Oneida:																					
1 to 19 employees.....	244	79	2	2	13	22	7	...	38	11	2	...	1	12	1	16	17	5	2	1	13
20 to 99 employees.....	81	27	...	2	6	2	1	5	4	1	...	...	2	...	9	6	11	1	1	1	2
100 employees and over.....	50	4	...	9	4	...	2	3	1	1	...	...	...	1	5	9	3	4	2	...	2
Onondaga:																					
1 to 19 employees.....	357	58	1	2	10	16	15	3	62	18	2	3	1	12	10	49	65	5	2	5	18
20 to 99 employees.....	134	32	1	...	1	4	4	10	14	5	1	...	...	3	14	17	20	1	1	3	3
100 employees and over.....	77	8	...	2	2	...	...	3	3	3	...	...	3	4	7	9	14	7	6	1	5
Ontario:																					
1 to 19 employees.....	53	18	...	1	2	3	2	...	8	...	1	...	...	2	1	2	8	2	...	...	3
20 to 99 employees.....	30	17	...	1	1	1	...	1	3	...	...	...	...	1	1	...	3	1	...	...	...
100 employees and over.....	9	1	...	...	...	...	...	...	...	...	...	...	...	1	...	3	3	...	...	1	...
Orange:																					
1 to 19 employees.....	181	43	...	3	21	5	7	1	24	6	3	...	11	5	4	15	13	3	1	3	13
20 to 99 employees.....	117	11	...	4	51	2	2	7	3	2	...	2	10	1	3	6	5	3	1	...	4
100 employees and over.....	43	1	...	8	8	...	...	2	2	3	...	...	5	3	...	2	3	2	...	...	4
Orleans:																					
1 to 19 employees.....	31	11	...	...	...	2	3	...	6	...	...	...	1	1	1	1	2	...	1	2	...
20 to 99 employees.....	15	7	...	...	1	...	1	...	1	...	...	...	...	...	2	1	1	...	...	...	1
100 employees and over.....	6	5	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...

Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954—Continued  
(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Putnam:																					
1 to 19 employees.....	26	3	...	...	3	2	...	...	5	...	1	...	...	1	1	1	...	...	...	1	8
20 to 99 employees.....	5	...	...	...	...	...	1	...	...	...	...	...	1	...	1	...	...	2	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...
Queens:																					
1 to 19 employees.....	1,812	124	1	102	225	49	110	25	124	96	6	7	17	74	31	265	202	71	26	73	184
20 to 99 employees.....	717	44	1	60	146	18	34	24	21	30	2	1	10	17	11	92	43	44	13	17	89
100 employees and over.....	243	41	1	6	12	3	6	15	14	8	...	1	6	1	5	27	10	35	6	15	31
Rensselaer:																					
1 to 19 employees.....	130	30	...	3	15	15	4	2	20	9	...	...	...	...	5	4	5	10	...	1	1
20 to 99 employees.....	39	13	...	4	10	1	...	1	3	...	...	...	...	2	...	1	1	...	1	...	2
100 employees and over.....	33	1	...	3	11	1	...	4	1	2	1	...	1	...	2	1	3	...	...	1	1
Richmond:																					
1 to 19 employees.....	117	15	...	...	28	3	3	2	10	5	1	...	1	3	5	14	12	...	5	1	9
20 to 99 employees.....	67	3	...	1	38	...	1	1	2	5	...	...	...	1	...	1	5	...	3	...	6
100 employees and over.....	18	4	...	1	...	...	...	...	1	4	1	1	...	1	1	...	...	3	1	...	...
Rockland:																					
1 to 19 employees.....	91	19	...	1	9	2	3	1	10	5	1	1	2	3	...	9	11	3	3	2	6
20 to 99 employees.....	48	3	...	6	18	1	1	...	3	1	...	...	1	...	...	4	4	2	...	...	4
100 employees and over.....	12	...	...	2	2	...	...	3	...	3	...	...	...	...	...	...	1	...	...	...	1
St. Lawrence:																					
1 to 19 employees.....	87	43	...	...	3	17	...	...	7	3	1	...	1	4	1	2	2	...	...	...	3
20 to 99 employees.....	24	11	...	...	1	4	1	3	2	...	...	...	...	...	...	1	1	...	...	...	...
100 employees and over.....	16	...	...	...	1	1	1	8	1	...	...	...	...	...	3	...	...	1	...	...	...
Saratoga:																					
1 to 19 employees.....	83	30	...	5	2	14	1	6	10	...	1	...	1	6	...	1	4	...	...	...	2
20 to 99 employees.....	22	3	...	3	3	1	1	7	1	...	...	...	...	...	...	...	2	...	...	...	1
100 employees and over.....	22	...	...	6	3	...	...	8	...	2	...	...	1	...	...	...	1	1	...	...	...
Schenectady:																					
1 to 19 employees.....	94	33	...	1	1	4	3	1	15	3	...	...	...	8	1	6	7	3	1	1	6
20 to 99 employees.....	15	6	...	...	...	...	1	...	1	1	...	...	...	1	...	1	...	1	1	...	2
100 employees and over.....	28	3	...	1	...	...	...	...	3	2	...	...	...	3	1	...	5	6	2	...	2
Schoharie:																					
1 to 19 employees.....	27	9	...	...	...	8	...	...	4	...	1	...	...	1	...	2	...	...	...	...	2
20 to 99 employees.....	7	...	...	1	2	1	...	...	1	...	...	...	1	...	...	...	1	...	...	...	...
100 employees and over.....	2	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	1	...	...	...	...
Schuyler:																					
1 to 19 employees.....	16	7	...	...	...	3	...	...	3	...	...	...	...	...	...	1	1	...	1	...	...
20 to 99 employees.....	2	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...
100 employees and over.....	4	...	...	...	...	1	...	...	...	2	...	...	...	...	...	...	1	...	...	...	...
Seneca:																					
1 to 19 employees.....	18	3	...	...	...	1	...	...	5	...	...	...	...	...	...	...	5	1	1	...	2
20 to 99 employees.....	10	4	...	...	1	2	...	...	...	...	...	...	...	...	...	...	1	...	1	...	1
100 employees and over.....	6	...	...	2	...	...	...	...	...	1	...	...	...	...	...	...	2	1	...	...	...
Steuben:																					
1 to 19 employees.....	73	28	...	1	1	10	...	...	14	2	1	...	...	1	1	6	5	...	1	...	2
20 to 99 employees.....	27	9	...	2	2	2	2	...	2	...	...	...	...	3	...	1	2	2	...	...	...
100 employees and over.....	15	3	...	2	...	2	1	1	...	...	...	...	...	3	...	...	1	1	1	...	...
Suffolk:																					
1 to 19 employees.....	406	46	...	11	47	24	19	1	42	13	2	...	3	28	6	42	38	7	39	15	23
20 to 99 employees.....	137	13	1	2	43	5	5	2	4	4	...	...	...	4	...	11	8	10	12	4	9
100 employees and over.....	24	1	...	4	2	...	1	...	...	...	...	...	...	...	...	...	...	4	8	2	2
Sullivan:																					
1 to 19 employees.....	97	33	...	2	5	19	7	...	14	1	2	1	...	1	1	5	2	...	3	1	...
20 to 99 employees.....	9	2	...	...	1	2	...	...	...	1	...	...	...	...	...	1	...	...	...	...	2
100 employees and over.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tioga:																					
1 to 19 employees.....	34	7	...	...	2	10	...	...	5	1	...	...	1	...	...	2	5	...	...	...	1
20 to 99 employees.....	8	3	...	...	1	1	1	...	...	...	...	...	...	...	1	...	1	...	...	...	...
100 employees and over.....	6	1	...	...	...	1	1	...	...	...	...	...	...	2	...	1	...	...	...	...	...
Tompkins:																					
1 to 19 employees.....	53	15	...	1	...	5	...	...	17	3	1	...	...	4	...	1	6	...	...	...	...
20 to 99 employees.....	10	1	...	...	2	...	...	...	4	...	...	...	1	...	...	1	1	...	...	...	...
100 employees and over.....	7	...	...	...	...	...	...	...	...	1	...	...	1	...	...	...	4	...	...	...	1
Ulster:																					
1 to 19 employees.....	164	31	...	3	23	29	5	2	14	2	1	...	2	9	1	13	16	2	4	1	6
20 to 99 employees.....	56	2	1	1	28	7	2	3	2	...	...	...	...	4	1	...	2	1	1	...	1
100 employees and over.....	20	1	...	1	7	...	...	2	...	1	...	...	...	1	...	1	1	2	3	...	...
Warren:																					
1 to 19 employees.....	65	9	...	2	2	34	...	1	5	2	...	...	1	5	...	1	2	...	...	...	1
20 to 99 employees.....	20	3	...	...	5	5	...	1	...	2	...	...	1	...	...	...	2	...	...	1	...
100 employees and over.....	12	...	...	2	4	...	...	3	1	1	...	...	...	1	...	...	...	...	...	...	...
Washington:																					
1 to 19 employees.....	72	13	...	...	2	16	1	6	8	1	2	...	...	14	...	2	4	...	1	...	2
20 to 99 employees.....	21	1	...	1	8	5	...	3	...	...	...	...	...	1	...	...	1	...	...	...	1
100 employees and over.....	11	...	...	1	1	...	1	6	...	...	...	...	...	...	...	...	1	1	...	...	...
Wayne:																					
1 to 19 employees.....	71	31	...	...	2	11	1	...	12	4	...	...	2	2	...	1	5	...	...	...	...
20 to 99 employees.....	30	19	...	...	...	...	2	2	2	2	...	...	...	2	...	2	...	...	...	...	1
100 employees and over.....	10	4	...	...	1	...	1	1	...	1	...	1	...	...	...	...	...	1	...	...	...
Westchester:																					
1 to 19 employees.....	777	67	...	14	99	20	44	12	134	55	2	1	5	20	6	85	64	43	9	23	74
20 to 99 employees.....	345	19	...	10	117	3	7	5	21	11	2	2	4	8	6	33	18	28	7	13	31
100 employees and over.....	86	11	...	2	10	...	2	...	9	5	1	...	...	...	4	5	4	17	3	3	10

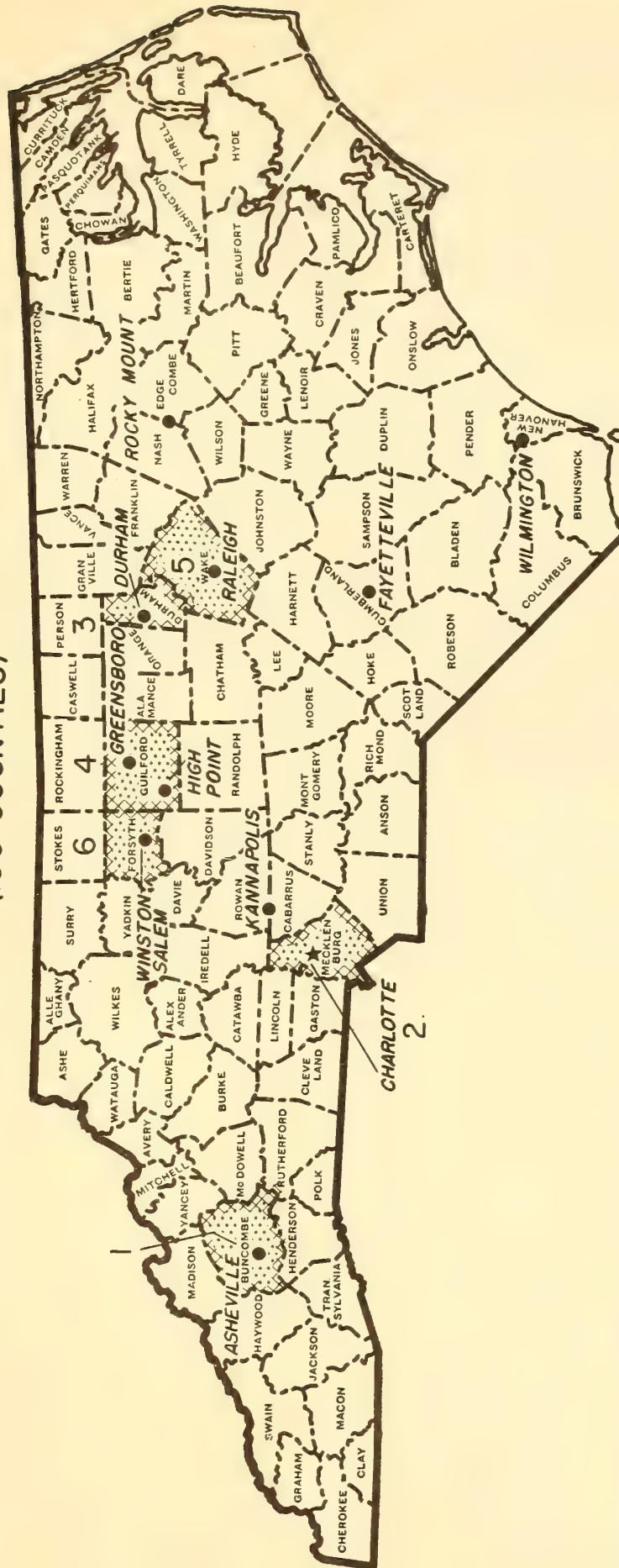
## MANUFACTURES—AREA STATISTICS

Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954—Continued  
 (Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establish- ments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Wyoming:																					
1 to 19 employees.....	38	13	...	1	1	5	1	1	6	...	...	...	...	2	...	2	4	...	...	1	1
20 to 99 employees.....	16	3	...	2	...	2	...	...	...	...	...	...	...	2	...	...	4	1	...	...	2
100 employees and over.....	10	1	...	3	1	...	...	...	...	1	...	...	...	...	...	2	1	1	...	...	...
Yates:																					
1 to 19 employees.....	23	10	...	...	...	2	...	...	6	...	...	...	...	...	...	1	2	...	2	...	...
20 to 99 employees.....	11	4	...	...	...	2	1	1	...	2	...	...	...	...	...	...	...	...	1	...	...
100 employees and over.....	2	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...



# NORTH CAROLINA (100 COUNTIES)



## STANDARD METROPOLITAN AREAS

### CODE

- 1 ASHEVILLE
- 2 CHARLOTTE
- 3 DURHAM
- 4 GREENSBORO-HIGH POINT
- 5 RALEIGH
- 6 WINSTON-SALEM

### LEGEND

- PLACES OF 25,000 TO 100,000
- ★ PLACES OF 100,000 AND OVER
- STANDARD METROPOLITAN AREAS

## MANUFACTURES—AREA STATISTICS

Table 1.—MANUFACTURING EMPLOYMENT AT OPERATING ESTABLISHMENTS AND CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARIES FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS

(This table includes data for all manufacturing employees including those located in central administrative offices and auxiliaries. Tables 2-7 in this report include data for operating establishments only. For explanation of column captions see Introduction)

State, standard metropolitan areas, and year <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	(Number)	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
North Carolina:						
1954.....	434,934	1,185,629	430,001	1,157,416	4,933	28,213
1953 <sup>2</sup> .....	446,265	1,201,031	442,719	1,185,639	3,546	15,392
1952 <sup>2</sup> .....	418,588	1,088,813	414,943	1,071,309	<sup>3</sup> 3,645	<sup>3</sup> 17,504
1951 <sup>2</sup> .....	413,421	1,037,226	409,776	1,019,722	3,645	17,504
1950 <sup>2</sup> .....	408,295	957,214	405,583	947,406	2,712	9,808
1949 <sup>2</sup> .....	368,816	815,128	366,059	806,324	2,757	8,804
1954						
Standard metropolitan areas:						
Asheville <sup>4</sup> .....	11,086	35,411	11,071	35,391	15	20
Charlotte <sup>5</sup> .....	22,375	73,374	21,635	68,387	740	4,987
Durham <sup>6</sup> .....	13,213	40,435	13,076	39,598	137	837
Greensboro-High Point <sup>7</sup> .....	38,588	112,415	37,380	104,332	1,208	8,083
Raleigh <sup>8</sup> .....	6,122	17,156	6,041	17,009	81	147
Winston-Salem <sup>9</sup> .....	31,771	107,369	29,930	96,515	1,841	10,854

<sup>1</sup>Employment data for administrative offices and auxiliaries on a State basis are not available for the years prior to 1949. Similar data for standard metropolitan areas are available only for 1954.

<sup>2</sup>The employment figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period. The employment figures for administrative and auxiliary units were compiled chiefly from Bureau of Old-Age and Survivors Insurance records and are not strictly comparable with the figures for these units that were collected by the Bureau of the Census for the year 1954.

<sup>3</sup>The 1951 data are shown for 1952 as auxiliary and administrative unit data were not collected in 1952.

<sup>4</sup>The Asheville Standard Metropolitan Area consists of Buncombe County, North Carolina.

<sup>5</sup>The Charlotte Standard Metropolitan Area consists of Mecklenburg County, North Carolina.

<sup>6</sup>The Durham Standard Metropolitan Area consists of Durham County, North Carolina.

<sup>7</sup>The Greensboro-High Point Standard Metropolitan Area consists of Guilford County, North Carolina.

<sup>8</sup>The Raleigh Standard Metropolitan Area consists of Wake County, North Carolina.

<sup>9</sup>The Winston-Salem Standard Metropolitan Area consists of Forsyth County, North Carolina.

Table 2.—GENERAL STATISTICS FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Year	Establish- ments, number	All employees		Production workers		Value added by manufacture (\$1,000)	
		Number	Payroll (\$1,000)	Number	Wages (\$1,000)		
	NORTH CAROLINA						
1954 <sup>1</sup> .....	6,645	{	430,001	1,157,416	380,089	915,683	2,210,463
1953 <sup>2</sup> .....			442,719	1,185,639	395,554	973,921	2,274,019
1952 <sup>2</sup> .....			414,943	1,071,309	373,768	883,149	2,013,824
1951 <sup>2</sup> .....			409,776	1,019,722	370,698	844,282	1,948,452
1950 <sup>2</sup> .....			405,583	947,406	367,263	788,662	1,862,825
1949 <sup>2</sup> .....	5,321	{	366,059	806,324	333,633	671,737	1,627,572
1947.....			381,438	758,757	350,177	641,917	1,646,030
1939.....			293,258	245,879	269,238	198,519	544,181
1937.....			271,910	218,315	258,771	189,265	475,834
1935.....			239,182	174,517	227,100	148,922	368,893
1933.....	2,084	(NA)	(NA)	200,202	113,523	319,140	
1931.....	2,557	(NA)	(NA)	179,282	118,684	384,038	
1929.....	3,797	226,425	198,810	209,826	160,868	693,013	
1927.....	2,984	(NA)	(NA)	204,590	158,394	593,827	
1925.....	2,614	(NA)	(NA)	182,234	134,237	499,727	
1923.....	2,670	(NA)	(NA)	173,687	127,538	435,762	
1921.....	2,602	(NA)	(NA)	135,833	94,235	285,153	
1919.....	5,690	167,848	148,361	156,376	124,978	413,707	
1914.....	5,489	145,326	56,249	136,795	46,013	119,407	
1909.....	4,931	128,002	41,259	121,473	34,355	94,795	
1904.....	3,272	89,411	25,171	85,339	21,375	63,253	
1899.....	3,465	75,216	16,447	72,322	14,052	40,420	
	STANDARD METROPOLITAN AREAS (None with 40,000 or more manufacturing employees in this State)						

NA Not available.

<sup>1</sup>The 1954 figures include data for establishments engaged in the processing and distribution of fluid milk, Industry Group 202, Dairy Products. These establishments were not included in the figures for the Annual Survey years 1949-1953 or earlier Census years. In addition, the 1954 Census and Annual Survey years include data for Logging camps and contractors, Industry 2411, which were not included within the scope of the 1947 Census. See footnotes to Table 4 for comparable 1954 and 1947 totals. There were also a number of changes in the definition of manufacturing industries during earlier Census years that affect the comparability of the historical series. Among the more important of these were: figures for 1935 and later years exclude data for "Railroad repair shops" and "Manufactured gas" which were included in 1899-1933 figures; the minimum size of establishment included for 1954 and 1947 was one employee, for 1939-1921 manufacturing establishments reporting value of shipments of \$5,000 or more were within scope whereas for 1919 and earlier years the cutoff was \$500. (This change in procedure has not appreciably affected the comparability of the historical data except for the figures on number of establishments.)

<sup>2</sup>The employment and payroll figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. (The standard errors associated with these estimates are published in the Annual Survey of Manufactures Volume for this period.)



## MANUFACTURES--AREA STATISTICS

Table 3.--GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
North Carolina, total....	4,061,929	6,645	430,001	1,157,416	380,089	719,429	915,683	2,210,463	129,622	<sup>1</sup> 381,438	<sup>1</sup> 1,646,030
STANDARD METROPOLITAN AREAS											
Asheville.....	124,403	163	11,071	35,391	8,758	17,645	24,251	54,838	6,909	11,942	56,697
Charlotte.....	197,052	385	21,635	68,387	17,067	33,653	45,829	128,740	5,589	18,200	80,465
Durham.....	101,639	122	13,076	39,598	11,392	21,628	32,419	144,539	7,320	16,159	101,002
Greensboro-High Point.....	191,057	510	37,380	104,322	33,045	59,654	77,484	169,106	8,190	28,843	125,935
Raleigh.....	136,450	167	6,041	17,009	4,697	9,157	11,144	25,885	9,403	4,002	15,499
Winston-Salem.....	146,135	187	29,930	96,515	24,498	46,431	69,027	303,756	18,956	27,368	177,425
COUNTIES											
Alamance.....	71,220	153	18,639	56,980	15,963	30,926	43,171	104,532	3,716	15,930	76,454
Alexander.....	14,554	38	1,027	2,408	950	1,817	2,021	3,309	322	1,049	3,444
Alleghany.....	8,155	9	509	839	495	878	768	1,070	38	96	165
Anson.....	26,781	57	1,552	3,732	1,440	2,624	3,239	5,352	166	1,672	5,568
Ashe.....	21,878	34	540	1,032	490	859	860	1,723	158	173	657
Avery.....	13,352	17	336	612	309	541	495	1,150	56	189	272
Beaufort.....	37,134	60	1,028	2,080	876	1,539	1,537	3,374	247	872	3,176
Bertie.....	26,439	49	895	1,949	816	1,544	1,601	3,361	214	457	1,252
Bladen.....	29,703	69	1,583	3,067	1,499	2,787	2,671	4,442	535	1,621	5,404
Brunswick.....	19,238	30	485	1,213	394	773	908	2,547	189	730	3,806
Buncombe.....	124,403	163	11,071	35,391	8,758	17,645	24,251	54,838	6,909	11,942	56,697
Burke.....	45,518	102	8,291	22,096	7,574	14,109	18,051	36,168	3,278	7,201	25,041
Cabarrus.....	63,783	63	22,239	55,136	21,133	38,310	50,126	76,384	1,764	22,525	106,016
Caldwell.....	43,352	83	9,041	23,396	8,290	16,578	19,685	39,351	1,034	8,083	29,766
Camden.....	5,223	6	14	20	12	22	17	74	4	(D)	(D)
Carteret.....	23,059	39	973	2,458	855	1,631	1,899	3,292	280	808	1,853
Caswell.....	20,870	16	200	551	188	322	499	681	7	179	686
Catawba.....	61,794	288	15,568	36,353	14,184	26,047	29,884	59,972	3,765	12,931	40,966
Chatham.....	25,392	99	3,302	8,190	2,970	5,450	6,689	13,795	1,149	1,853	5,220
Cherokee.....	18,294	25	710	1,968	872	1,673	1,808	2,377	187	301	807
Chowan.....	12,540	15	423	913	379	696	747	1,293	128	640	1,648
Clay.....	6,006	5	94	153	91	140	145	165	9	301	812
Cleveland.....	64,357	76	7,995	20,363	7,340	14,455	17,271	28,396	1,587	7,923	34,357
Columbus.....	50,621	51	2,189	5,930	1,984	3,944	4,857	13,972	1,628	847	2,165
Craven.....	48,823	62	1,762	4,333	1,395	2,780	2,904	6,857	692	1,129	3,931
Cumberland.....	96,006	75	4,187	10,031	3,679	7,388	8,032	16,813	751	3,400	12,382
Currituck.....	6,201	11	116	254	102	180	175	345	4	24	44
Dare.....	5,405	8	89	256	71	142	171	99	80	(D)	(D)
Davidson.....	62,244	181	13,424	34,000	12,231	22,904	27,323	52,842	2,449	11,449	42,629
Davie.....	15,420	34	1,923	4,804	1,845	3,475	4,390	7,532	489	1,122	4,545
Duplin.....	41,074	48	1,138	2,637	1,023	2,133	2,123	5,260	169	679	2,021
Durham.....	101,639	122	13,076	39,598	11,392	21,628	32,419	144,539	7,320	16,159	101,002
Edgecombe.....	51,634	53	2,446	6,143	2,131	4,355	4,917	10,442	526	1,594	5,448
Forsyth.....	146,135	187	29,930	96,515	24,498	46,431	69,027	303,756	18,956	27,368	177,425
Franklin.....	31,341	41	1,236	2,858	1,147	2,120	2,502	3,425	166	1,152	4,226
Gaston.....	110,836	219	27,192	68,685	25,269	48,741	59,734	115,165	7,307	29,607	123,378
Gates.....	9,555	23	213	358	196	359	322	719	43	320	710
Graham.....	6,886	9	237	655	222	472	561	927	49	(D)	(D)
Grantville.....	31,793	40	1,382	2,970	1,256	2,184	2,369	4,973	222	864	5,330
Greene.....	18,024	9	58	110	49	87	91	193	13	49	(D)
Guilford.....	191,057	509	37,380	104,332	33,045	59,654	77,484	169,106	8,190	28,843	125,935
Halifax.....	58,377	85	5,713	14,075	5,196	9,597	11,836	23,244	1,607	5,688	21,930
Harnett.....	47,605	56	2,632	5,773	2,519	4,220	5,376	9,071	418	2,296	11,112
Haywood.....	37,631	35	4,961	20,929	3,856	7,820	15,622	48,436	4,749	4,405	22,221
Henderson.....	30,921	49	2,348	6,221	2,064	4,081	4,982	9,641	603	1,739	5,403
Hertford.....	21,453	38	1,030	2,274	946	1,907	1,924	3,704	294	1,014	2,196
Hoke.....	15,756	12	1,062	2,811	972	2,165	2,422	3,985	49	253	894
Hyde.....	6,479	9	82	141	79	131	134	227	7	(D)	(D)
Iredell.....	56,303	132	9,349	23,626	8,526	16,201	19,845	37,397	2,003	8,651	34,605
Jackson.....	19,261	18	(D)	(D)	(D)	(D)	(D)	(D)	(D)	627	(D)
Johnston.....	65,906	66	2,531	5,356	2,346	4,320	4,554	8,294	319	2,181	7,336
Jones.....	11,004	12	143	253	134	219	219	560	29	(D)	(D)
Lee.....	23,522	89	3,472	8,434	3,132	6,322	6,799	14,420	1,237	1,865	5,398
Lenoir.....	45,953	51	4,278	14,388	3,291	6,353	8,722	40,312	3,356	2,271	6,449
Lincoln.....	27,459	61	3,061	6,714	2,848	5,381	5,792	9,697	272	3,350	10,397
McDowell.....	25,720	51	5,026	13,276	4,705	9,379	11,608	23,811	1,078	3,185	11,213
Macon.....	16,174	26	369	833	330	596	701	1,486	93	351	1,183
Madison.....	20,522	15	154	328	138	229	237	712	30	55	85
Martin.....	27,938	39	907	1,946	805	1,651	1,528	3,324	85	1,374	8,395
Mecklenburg.....	197,052	385	21,635	68,387	17,067	33,653	45,829	128,740	5,589	18,200	80,465
Mitchell.....	15,143	26	590	1,083	543	1,002	924	1,891	48	705	1,404

Table 3.--GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954							1947		
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
Montgomery.....	17,260	97	3,392	6,651	3,115	5,252	5,491	10,597	279	2,370	5,953
Moore.....	33,129	89	2,657	6,648	2,348	4,679	5,316	10,925	221	2,466	7,762
Nash.....	59,919	67	3,905	9,647	3,344	6,431	7,187	21,510	811	2,998	11,005
New Hanover.....	63,272	101	5,129	13,832	4,195	8,472	10,217	25,820	1,405	3,329	13,366
Northhampton.....	28,432	33	638	1,274	593	1,049	1,102	2,018	130	515	1,132
Onslow.....	42,047	13	150	345	104	189	213	550	29	282	669
Orange.....	34,435	38	1,631	3,699	1,500	2,547	3,154	6,921	252	1,598	6,371
Pamlico.....	9,993	16	94	152	82	154	133	283	51	138	311
Pasquotank.....	24,347	47	1,538	3,488	1,353	2,750	2,727	5,531	496	1,846	5,668
Pender.....	18,423	32	434	774	399	682	627	1,330	66	545	1,164
Perquimans.....	9,602	20	198	334	187	371	311	631	58	324	1,048
Person.....	24,361	34	2,125	4,961	1,974	3,434	4,292	7,405	524	2,231	9,650
Pitt.....	63,789	56	2,141	4,825	1,727	2,872	2,946	7,805	386	1,923	7,029
Polk.....	11,627	27	1,204	3,075	1,102	2,163	2,673	4,163	58	608	2,290
Randolph.....	50,804	200	11,807	31,566	10,817	20,866	27,227	51,826	2,252	8,865	31,577
Richmond.....	39,597	54	4,349	12,130	4,052	8,146	10,776	17,760	1,478	4,081	14,372
Robeson.....	87,769	67	2,983	7,213	2,753	5,412	6,232	10,579	596	3,360	11,879
Rockingham.....	64,816	83	10,075	28,137	9,267	16,648	23,914	91,743	1,631	11,744	72,658
Rowan.....	75,410	111	7,838	19,627	7,148	12,874	16,071	29,633	1,631	7,835	33,757
Rutherford.....	46,356	80	7,216	17,924	6,681	12,689	15,466	30,544	2,309	6,703	30,980
Sampson.....	49,780	71	1,440	2,625	1,311	2,417	2,159	4,650	275	804	2,355
Scotland.....	26,336	30	2,851	6,716	2,654	5,191	5,941	10,326	1,203	1,999	7,402
Stanly.....	37,130	64	6,976	18,272	6,395	11,140	15,356	30,187	1,464	6,627	21,544
Stokes.....	21,520	24	479	951	435	908	796	1,629	79	432	1,251
Surry.....	45,593	107	8,255	20,686	7,728	14,521	17,350	30,626	766	6,763	21,592
Swain.....	9,921	13	362	968	335	595	835	1,746	40	245	492
Transylvania.....	15,194	27	2,901	10,687	2,244	4,361	6,693	24,899	898	2,654	16,016
Tyrrell.....	5,048	6	127	188	122	202	167	230	16	129	214
Union.....	42,034	55	2,113	4,668	1,911	3,416	3,797	8,021	664	1,521	5,202
Vance.....	32,101	28	2,571	6,038	2,344	4,030	4,810	9,650	480	2,736	10,747
Raleigh.....	136,450	167	6,041	17,009	4,697	9,157	11,144	25,885	9,403	4,002	15,499
Warren.....	23,539	34	612	1,099	546	953	862	1,720	137	542	1,495
Washington.....	13,180	18	(D)	(D)	(D)	(D)	(D)	(D)	(D)	578	(D)
Watauga.....	18,342	15	172	460	133	271	271	1,237	94	46	80
Wayne.....	64,267	70	2,728	6,476	2,302	4,195	4,686	10,174	323	2,901	9,005
Wilkes.....	45,243	100	3,205	6,465	3,006	5,564	5,482	9,995	484	2,188	5,911
Wilson.....	54,506	63	2,552	6,267	2,123	3,997	4,476	10,868	635	2,548	7,529
Yadkin.....	22,133	39	248	462	216	386	357	692	53	226	905
Yancey.....	16,306	16	739	1,961	670	1,319	1,694	2,924	93	196	879
CITIES WITH 10,000 INHAB- ITANTS OR MORE											
Albemarle.....	11,798	26	4,614	10,328	4,393	7,129	9,201	16,212	324	(NA)	(NA)
Asheville.....	53,000	88	3,200	8,850	2,558	5,276	6,109	13,859	2,023	2,843	14,147
Burlington.....	24,560	79	11,805	37,818	9,593	18,739	27,354	72,294	2,598	9,772	49,723
Charlotte.....	134,042	300	17,688	56,719	13,615	27,169	36,705	107,015	4,304	13,515	61,089
Concord.....	16,486	32	5,415	14,115	5,029	9,727	12,262	18,420	735	5,800	(D)
Durham.....	71,311	87	12,535	38,297	11,058	20,941	31,657	142,375	6,862	15,805	(D)
Elizabeth City.....	12,685	25	668	1,606	571	1,159	1,238	2,462	108	453	1,605
Fayetteville.....	34,375	32	1,766	4,384	1,415	2,926	3,054	8,491	348	1,027	4,269
Gastonia.....	23,069	104	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	6,127	26,861
Goldsboro.....	21,454	33	2,073	5,419	1,713	3,389	3,773	8,182	249	2,474	7,827
Greensboro.....	74,389	171	16,220	48,742	13,834	25,545	35,505	78,997	4,413	11,299	58,627
Greenville.....	16,724	28	1,812	4,190	1,451	2,416	2,468	6,717	283	1,310	4,278
Henderson.....	10,996	14	622	1,445	508	943	913	2,186	156	(NA)	(NA)
Hickory.....	14,755	122	6,329	15,534	5,589	10,395	12,031	26,460	1,804	6,313	19,015
High Point.....	39,973	205	16,724	43,125	15,463	26,950	32,931	69,658	2,779	13,183	47,366
Kinston.....	18,336	30	1,756	3,277	1,580	2,791	2,537	5,666	242	2,139	6,013
Lexington.....	13,571	40	5,858	16,016	5,219	9,770	12,091	24,494	1,377	5,179	23,108
Monroe.....	10,140	31	1,602	3,481	1,470	2,627	2,922	5,508	496	(NA)	(NA)
New Bern.....	15,812	30	1,395	3,591	1,072	2,250	2,349	5,573	510	924	3,484
Raleigh.....	65,679	61	2,384	7,701	1,555	2,956	4,299	12,718	528	2,733	11,875
Reidsville.....	11,708	18	3,982	(D)	3,665	(D)	(D)	(D)	(D)	4,567	45,917
Rocky Mount.....	27,697	46	3,761	9,748	3,118	6,120	6,878	21,727	782	3,011	12,102
Salisbury.....	20,102	46	3,109	8,189	2,716	5,179	6,253	13,710	322	2,982	14,726
Sanford.....	10,013	41	2,707	6,466	2,470	5,039	5,469	10,822	610	(NA)	(NA)
Shelby.....	15,508	31	2,970	8,253	2,588	5,273	6,660	12,700	845	2,455	13,720
Statesville.....	16,901	63	4,647	11,705	4,126	8,125	9,412	22,393	1,374	4,544	17,433
Thomasville.....	11,154	47	5,542	13,104	5,147	9,519	11,052	20,322	666	4,588	14,060
Wilmington.....	45,043	74	4,017	11,136	3,238	6,476	8,125	20,912	1,184	2,428	10,522
Wilson.....	23,010	45	2,167	5,485	1,786	3,310	3,857	9,634	464	2,447	7,308
Winston Salem.....	87,811	125	26,642	88,031	21,562	41,087	62,203	288,060	18,138	25,009	170,365

D Withheld to avoid disclosing figures for individual companies.

NA Separate figures are not available, but are included in totals for the area.

The 1947 data are not strictly comparable with the figures shown for 1954 due to differences in coverage of loggers and fluid milk distributors.  
See discussion in Introduction and footnotes to Table 4.



Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establish- ments, number		All employees		Production workers			Value added by manufacture	Value of shipments	Capital expendi- tures, new	All employees, number	Value added by manufacture
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
	All industries, total <sup>1</sup> ...	6,645	2,369	430,001	1,157,416	380,089	719,429	915,683	2,210,463	( <sup>2</sup> )	129,622	<sup>3</sup> 381,438	<sup>3</sup> 1,646,030
20	Food and kindred products..	846	299	24,993	73,346	14,995	31,291	34,451	155,557	( <sup>2</sup> )	10,250	16,716	78,430
201	Meat products.....	138	54	3,870	8,815	3,165	6,274	6,001	18,708	( <sup>2</sup> )	873	1,194	5,885
2011	Meat packing, plants.....	58	23	1,466	4,235	1,037	2,377	2,494	8,139	( <sup>2</sup> )	394	692	4,091
2013	Prepared meats.....	22	4	377	1,105	280	557	604	2,143	( <sup>2</sup> )	100	307	1,355
2015	Poultry dressing, plants.....	58	27	2,026	3,475	1,847	3,339	2,902	8,425	52,754	378	195	439
202	Dairy products.....	105	50	4,647	15,754	2,209	5,089	6,444	35,611	( <sup>2</sup> )	2,891	( <sup>4</sup> )	( <sup>4</sup> )
2024	Ice cream and ices.....	23	9	510	1,489	318	701	777	4,434	9,347	268	( <sup>4</sup> )	( <sup>4</sup> )
2026	Fluid milk.....	17	2	187	556	120	259	299	1,173	3,143	102	( <sup>4</sup> )	( <sup>4</sup> )
2027	Fluid milk and other products..	54	37	3,829	13,297	1,673	3,901	5,069	27,729	85,675	2,459	( <sup>4</sup> )	( <sup>4</sup> )
203	Canned and frozen foods.....	35	10	924	1,856	811	1,360	1,343	3,476	( <sup>2</sup> )	235	686	1,937
2031	Canned seafood.....	6	3	149	262	132	196	194	465	972	16	(D)	(D)
2033	Canned fruits and vegetables...	10	3	146	409	113	204	182	707	1,976	141	(D)	(D)
2035	Pickles and sauces.....	7	3	496	969	441	734	776	1,793	4,758	21	460	1,401
204	Grain mill products.....	173	32	2,726	7,584	1,811	4,086	4,193	17,142	( <sup>2</sup> )	1,478	2,117	11,611
2041	Flour and meal.....	75	11	836	2,234	545	1,220	1,228	3,303	18,257	(D)	688	(D)
2042	Prepared animal feeds.....	94	20	1,838	5,154	1,227	2,802	2,892	13,398	76,716	728	1,395	8,227
205	Bakery products.....	85	57	5,252	16,076	3,240	6,831	7,882	28,508	( <sup>2</sup> )	1,847	4,067	16,963
2051	Bread and related products.....	81	54	5,016	15,540	3,050	6,459	7,524	27,321	59,386	1,844	(D)	(D)
2052	Biscuit and crackers.....	4	3	236	536	190	372	357	1,186	3,006	3	(D)	(D)
207	Candy and related products...	17	5	490	1,264	415	886	922	6,000	9,440	157	534	2,072
2071	Confectionery products.....	17	5	490	1,264	415	886	922	6,000	9,440	157	534	2,072
208	Beverages.....	146	72	3,883	11,758	1,514	3,207	3,416	25,247	( <sup>2</sup> )	2,171	3,472	20,057
209	Miscellaneous foods.....	147	19	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2097	Manufactured ice.....	95	4	715	1,582	432	806	799	2,426	3,086	106	1,651	(D)
2099	Food preparations, n.e.c.....	45	14	2,357	8,182	1,312	2,577	3,209	16,749	34,169	414	(D)	(D)
21	Tobacco manufactures.....	57	57	26,147	77,087	23,662	44,210	64,159	390,599	( <sup>2</sup> )	11,497	32,452	257,986
2111	Cigarettes.....	4	4	14,168	47,748	13,083	24,516	42,026	337,271	830,224	10,055	14,052	197,576
2141	Tobacco stemming and redrying	49	49	9,501	22,355	8,342	15,685	16,368	33,740	579,671	1,119	13,993	44,237
22	Textile mill products.....	1,030	814	222,851	564,483	209,929	389,815	498,156	861,554	( <sup>2</sup> )	43,538	210,350	846,280
221	Woolen and worsted manufac- tures.....	20	15	6,474	19,467	5,998	12,100	16,607	29,599	95,193	1,153	5,759	23,212
2213	Woolen and worsted fabrics.....	10	8	4,978	15,845	4,580	9,535	13,354	21,864	64,282	877	5,150	21,576
222	Yarn and thread mills.....	218	202	51,653	116,186	49,167	88,035	103,364	176,138	( <sup>2</sup> )	11,390	60,132	220,211
2222	Yarn throwing mills.....	24	17	2,298	6,525	2,061	4,049	5,198	12,222	29,532	(D)	1,806	(D)
2223	Thread mills.....	13	10	2,648	6,673	2,404	4,720	5,609	12,179	42,876	(D)	1,366	5,371
2224	Yarn mills, cotton system.....	181	175	46,706	102,987	44,702	79,265	92,557	151,736	455,560	8,612	(D)	(D)
223	Broad-woven fabrics.....	155	151	91,426	242,742	86,389	164,306	217,967	364,185	( <sup>2</sup> )	15,757	84,602	395,325
2233	Cotton broad-woven fabrics.....	102	98	69,280	178,417	65,837	122,089	161,735	266,671	656,555	11,328	68,481	315,090
2234	Synthetic broad-woven fabrics..	53	53	22,146	64,325	20,552	42,216	56,231	97,514	272,735	4,429	16,121	80,235
2241	Narrow fabric mills.....	27	20	1,808	4,848	1,666	3,256	4,156	8,002	15,806	591	1,110	4,572
225	Knitting mills.....	529	377	60,313	149,739	56,823	102,868	131,615	229,648	( <sup>2</sup> )	11,733	49,685	164,063
2251	Full-fashioned hosiery mills...	165	116	22,396	65,013	21,013	39,385	57,914	97,910	193,552	2,990	16,481	71,511
2252	Seamless hosiery mills.....	309	224	29,849	64,133	28,415	49,733	56,714	98,506	208,776	7,363	26,713	70,036
2254	Knit underwear mills.....	11	10	4,846	12,199	4,463	7,996	10,120	17,709	40,067	337	4,239	13,504
2256	Knit fabric mills.....	31	17	2,250	6,375	2,042	4,181	5,212	12,555	56,541	(D)	1,599	7,171
2261	Finishing textiles exc. wool.	39	29	7,578	22,658	6,560	12,993	17,147	36,884	92,587	1,714	5,006	22,694
227	Carpets and rugs.....	13	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2273	Carpets and rugs, except wool..	10	4	409	869	367	693	706	2,344	5,998	(D)	404	(D)
229	Miscellaneous textile goods...	29	14	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2293	Padding and upholstery filling.	7	2	417	1,057	377	716	745	1,190	6,302	87	378	1,617
2294	Processed textile waste.....	8	1	138	351	117	231	249	232	1,563	(D)	227	(D)
2298	Cordage and twine.....	8	6	1,043	2,589	963	1,849	2,218	5,503	13,510	201	1,295	5,534
2299	Textile goods, n.e.c.....	5	4	262	534	247	415	423	948	2,560	10	697	(D)
23	Apparel and related prod- ucts.....	207	144	21,364	41,233	19,866	34,596	34,680	63,179	( <sup>2</sup> )	2,341	16,644	43,852
232	Men's and boys' furnishings..	62	52	8,832	15,644	8,312	14,185	13,439	23,766	( <sup>2</sup> )	637	5,523	13,780
2321	Men's dress shirts & nightwear.	26	22	3,763	6,507	3,580	6,116	5,701	10,126	18,071	311	2,475	5,118
2322	Men's and boys' underwear.....	6	6	1,056	1,670	1,029	1,792	1,544	2,338	5,465	22	246	(D)
2329	Men's and boys' clothing, nec..	17	15	3,125	5,838	2,842	4,659	4,658	9,191	23,716	233	2,419	7,263
233	Women's and misses' outerwear	27	21	1,910	3,466	1,814	3,154	3,044	5,495	( <sup>2</sup> )	155	252	(D)
2331	Blouses.....	8	5	377	587	362	610	512	684	1,655	10	(D)	(D)
2334	Dresses, dozen price.....	6	5	317	544	308	596	524	784	1,526	(D)	109	(D)
2339	Women's outerwear, n.e.c.....	5	5	932	1,852	882	1,487	1,581	3,291	8,609	106	...	...
234	Women's undergarments.....	39	31	4,700	9,705	4,293	7,748	7,827	16,130	( <sup>2</sup> )	590	1,090	3,804
236	Children's outerwear.....	18	14	1,902	3,488	1,780	3,148	3,057	4,892	( <sup>2</sup> )	223	(D)	(D)
2369	Children's outerwear, n.e.c.....	10	9	1,309	2,499	1,214	2,158	2,183	3,634	9,591	177	...	...
238	Miscellaneous apparel.....	11	7	1,375	2,744	1,275	2,152	2,200	3,951	( <sup>2</sup> )	565	1,044	3,813
239	Fabricated textiles, n.e.c....	49	19	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2392	Housefurnishings, n.e.c.....	12	8	1,734	3,901	1,616	2,858	3,443	5,713	38,548	61	7,434	18,275
2393	Textile bags.....	9	5	345	938	310	566	735	1,626	4,363	33	587	2,066
2394	Canvas products.....	15	3	201	463	177	268	333	735	1,522	18	149	424

See footnotes at end of table.



Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establish- ments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
24	Lumber and wood products...	2,485	345	32,071	62,328	29,602	53,875	52,450	100,100	( <sup>2</sup> )	5,878	( <sup>4</sup> )	( <sup>4</sup> )
2411	Logging camps and contractors	519	10	2,486	3,766	2,209	3,547	3,326	6,694	11,900	1,114	( <sup>4</sup> )	( <sup>4</sup> )
242	Lumber and basic products....	1,777	262	22,206	41,276	20,686	37,054	34,897	67,213	( <sup>2</sup> )	3,900	23,413	60,494
2421	Sawmills and planing mills....	1,712	215	19,650	35,535	18,284	32,356	30,151	58,839	134,816	3,554	22,226	56,653
2422	Veneer mills.....	47	40	2,163	4,916	2,032	4,016	4,040	7,011	14,760	283	953	3,351
2424	Cooperage stocks mills.....	12	6	310	604	295	546	534	819	1,966	53	209	(D)
243	Millwork and related products	105	44	4,187	9,882	3,799	7,805	8,028	15,249	( <sup>2</sup> )	451	3,553	12,096
2432	Plywood plants.....	27	20	2,357	5,281	2,203	4,402	4,449	8,268	17,730	249	2,373	8,468
244	Wooden containers.....	22	11	1,813	3,853	1,696	3,314	3,389	5,940	( <sup>2</sup> )	212	3,079	8,657
2441	Fruit and vegetable baskets....	4	4	921	1,968	851	1,750	1,708	3,082	4,706	150	985	2,207
2444	Wooden boxes.....	10	6	813	1,714	771	1,439	1,544	2,556	5,233	55	1,995	6,171
249	Miscellaneous wood products...	62	18	1,377	3,550	1,212	2,154	2,809	5,003	( <sup>2</sup> )	199	1,042	2,880
2499	Wood products, n.e.c.....	47	14	1,105	2,864	990	1,739	2,364	3,936	6,911	152	797	1,741
25	Furniture and fixtures.....	430	212	33,027	89,359	29,807	59,937	70,970	145,543	( <sup>2</sup> )	4,284	27,858	102,447
251	Household furniture.....	366	187	30,003	80,881	27,204	54,382	64,722	131,414	( <sup>2</sup> )	3,785	25,945	96,272
2511	Wood furniture, not upholstered	153	96	22,082	58,072	20,294	40,985	47,503	92,565	179,199	2,632	19,868	75,067
2512	Upholstered household furniture	160	80	7,060	20,126	6,197	11,938	15,751	34,029	70,065	973	5,454	18,652
2515	Mattresses and bedspring.....	41	6	614	1,853	502	1,048	889	3,367	7,922	143	403	1,510
252	Office furniture.....	6	6	1,034	2,699	927	1,898	2,131	4,722	8,221	73	814	2,427
2521	Wood office furniture.....	6	6	1,034	2,699	927	1,898	2,131	4,722	8,221	73	814	2,427
253	Public and professional fur- niture.....	14	9	1,465	3,963	1,290	2,831	3,093	6,358	12,008	363	(D)	(D)
2531	Public-building furniture.....	14	9	1,465	3,963	1,290	2,831	3,093	6,358	12,008	363	428	(D)
2541	Partitions and fixtures.....	14	5	292	1,188	222	533	683	2,054	3,100	31	339	1,695
256	Screens, shades, and blinds..	29	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2563	Venetian blinds.....	23	3	153	371	111	190	208	640	1,987	18	83	(D)
26	Pulp, paper and products...	67	47	9,731	38,896	7,919	16,319	28,858	91,441	( <sup>2</sup> )	7,433	7,859	47,395
261	Pulp, paper and board.....	15	14	6,905	30,476	5,482	11,351	22,680	73,616	( <sup>2</sup> )	6,579	6,087	38,424
2612	Paper and paper board mills....	8	8	4,207	18,432	3,421	6,995	13,809	46,111	104,870	1,466	(NA)	(NA)
267	Paperboard containers.....	38	26	2,431	6,978	2,120	4,283	5,195	14,861	( <sup>2</sup> )	608	1,527	7,931
2671	Paperboard boxes.....	33	25	2,371	6,852	2,062	4,161	5,073	14,521	34,345	605	1,524	(D)
269	Pulp, paper and products, n.e.c.....	9	4	244	898	197	460	610	1,989	( <sup>2</sup> )	139	(D)	(D)
27	Printing and publishing....	429	83	7,489	27,285	4,895	9,490	16,254	45,497	( <sup>2</sup> )	1,772	5,297	25,369
2711	Newspapers.....	164	42	4,350	16,576	2,533	4,816	9,043	28,104	39,817	715	3,098	16,349
2721	Periodicals.....	20	1	137	486	10	16	36	815	1,294	23	125	599
2732	Book printing.....	5	4	195	588	163	325	475	766	1,270	34	(D)	(D)
2751	Commercial printing.....	166	25	1,954	6,873	1,503	2,947	4,634	11,514	19,867	742	1,517	6,178
2761	Lithographing.....	34	4	283	839	225	443	649	1,426	2,386	107	152	809
278	Bookbinding and related in- dustries.....	7	2	135	339	122	257	287	483	( <sup>2</sup> )	32	151	340
279	Printing trade services.....	27	4	386	1,464	318	647	1,074	2,130	( <sup>2</sup> )	64	191	872
2792	Engraving and plate printing...	12	3	229	779	187	396	513	1,097	1,467	19	89	(D)
2793	Photoengraving.....	8	1	115	531	93	189	443	802	1,027	31	91	(D)
28	Chemicals and products.....	215	85	11,414	44,141	8,166	16,581	25,014	107,032	( <sup>2</sup> )	10,201	9,490	58,607
282	Organic chemicals.....	14	6	6,254	27,586	4,222	8,425	15,555	66,572	( <sup>2</sup> )	7,984	(D)	(D)
2823	Plastics materials.....	5	2	832	3,675	579	1,188	2,118	12,195	24,754	(D)	(D)	(D)
283	Drugs and medicines.....	18	3	346	2,002	409	780	1,068	8,281	11,124	303	600	7,994
2834	Pharmaceutical preparations....	18	3	346	2,002	409	780	1,068	8,281	11,124	303	592	(D)
284	Soap and related products....	20	3	218	870	145	261	355	2,379	( <sup>2</sup> )	68	(D)	(D)
2843	Sulfonated oils and assistants.	8	3	157	696	108	186	264	1,935	4,181	44	98	(D)
285	Paints and allied products...	20	4	391	1,900	262	537	907	3,958	( <sup>2</sup> )	102	238	2,135
287	Fertilizers.....	58	35	2,162	6,061	1,670	3,433	3,930	14,468	( <sup>2</sup> )	685	2,301	12,460
2871	Fertilizers.....	17	15	1,014	3,053	818	1,714	2,126	6,615	21,891	327	1,282	7,260
2872	Fertilizers, mixing only.....	41	20	1,148	3,007	851	1,719	1,803	7,853	26,078	358	1,019	5,200
288	Vegetable and animal oils....	36	26	1,313	3,302	989	2,236	2,108	6,339	( <sup>2</sup> )	816	1,369	7,300
2886	Grease and tallow.....	9	4	277	750	167	399	409	2,451	3,630	190	83	(D)
2889	Animal oils, n.e.c.....	6	5	286	720	215	477	480	950	2,401	20	187	915
289	Chemical products, n.e.c.....	42	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2896	Compressed and liquefied gases.	5	3	136	419	75	157	277	1,228	1,459	70	(D)	(D)
2897	Insecticides and fungicides....	14	2	160	532	112	199	227	546	3,641	65	106	511
2899	Chemical products, n.e.c.....	13	1	283	1,047	168	341	327	1,745	3,068	78	204	1,402
29	Petroleum and coal products	6	2	127	488	93	213	327	1,085	( <sup>2</sup> )	150	(D)	(D)
30	Rubber products.....	18	2	1,178	3,970	964	1,889	3,114	9,572	16,375	(D)	(D)	(D)
3099	Rubber industries, n.e.c.....	18	2	1,178	3,970	964	1,889	3,114	9,572	16,375	(D)	(D)	(D)
31	Leather and leather goods..	35	12	1,383	3,988	1,174	2,480	2,970	5,754	( <sup>2</sup> )	152	1,623	10,756
3111	Leather tanning and finishing	6	5	696	1,835	615	1,377	1,479	2,079	7,311	93	1,203	8,897
3121	Industrial leather belting...	8	2	119	461	82	167	257	747	1,702	5	88	(D)
314	Footwear, except rubber.....	4	1	384	1,314	311	610	895	2,219	( <sup>2</sup> )	(D)	(D)	(D)
317	Purses and small leather goods.....	10	2	127	227	111	190	196	449	( <sup>2</sup> )	(D)	...	...

See footnotes at end of table.

## MANUFACTURES—AREA STATISTICS

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954										1947		
		Establish- ments, number		All employees		Production workers			Value added by manufacture	Value of shipments	Capital expendi- tures, new	All employees, number	Value added by manufacture	
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
32	Stone, clay and glass products.....	233	83	6,592	18,279	5,624	11,507	13,080	31,827	( <sup>2</sup> )	3,619	5,611	19,019	
3231	Products of purchased glass..	10	8	812	2,196	741	1,487	1,709	3,519	11,150	234	(D)	(D)	
325	Structural clay products.....	40	33	2,250	6,508	1,891	4,060	4,405	11,275	( <sup>2</sup> )	2,354	2,010	7,092	
3259	Structural clay products n.e.c.	4	3	248	602	168	419	358	658	914	(D)	...	...	
327	Concrete and plaster products	123	26	1,796	5,073	1,473	3,106	3,495	9,241	( <sup>2</sup> )	759	1,437	4,734	
3281	Cut-stone and stone products.	26	4	551	1,541	474	938	1,261	2,286	3,389	98	240	941	
329	Nonmetallic mineral products, n.e.c.....	24	11	1,103	2,771	974	1,798	2,069	5,182	( <sup>2</sup> )	166	1,578	4,891	
3295	Minerals: ground or treated....	9	2	133	351	105	223	226	1,114	1,985	41	873	(D)	
33	Primary metal industries...	40	17	2,205	8,175	1,857	3,785	6,284	13,487	( <sup>2</sup> )	946	2,065	6,643	
34	Fabricated metal products..	134	39	4,673	16,366	3,813	7,913	11,557	32,690	( <sup>2</sup> )	2,443	2,785	11,749	
342	Cutlery, tools, and hardware	9	5	455	1,382	391	800	1,044	2,229	( <sup>2</sup> )	84	301	707	
3429	Hardware, n.e.c.....	6	4	400	1,239	344	713	941	2,010	3,077	83	191	(D)	
344	Structural metal products....	75	19	2,601	10,266	2,018	4,387	6,968	19,671	( <sup>2</sup> )	1,356	1,940	8,858	
3441	Structural and ornamental work.	27	11	1,276	5,705	868	1,881	3,139	9,412	19,944	395	916	4,109	
3443	Boiler shop products.....	14	5	1,001	3,612	896	1,949	3,178	8,096	14,723	513	299	1,137	
346	Metal stamping and coating...	22	5	351	1,134	297	546	832	1,768	( <sup>2</sup> )	202	(D)	(D)	
348	Fabricated wire products.....	11	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
3489	Wirework, n.e.c.....	10	5	546	1,455	495	986	989	2,526	5,308	318	271	740	
349	Metal products, n.e.c.....	9	4	618	1,812	532	1,058	1,526	5,976	( <sup>2</sup> )	445	(D)	(D)	
35	Machinery except electri- cal.....	208	69	6,354	22,238	5,049	10,680	15,052	36,520	( <sup>2</sup> )	2,046	3,954	17,416	
352	Tractors and farm machinery..	18	8	831	2,664	705	1,605	1,976	4,071	9,326	389	672	2,505	
3522	Farm machinery (exc. tractors).	18	8	831	2,664	705	1,605	1,976	4,071	9,326	389	672	2,505	
354	Metalworking machinery.....	12	3	282	1,121	236	508	806	1,675	( <sup>2</sup> )	106	(D)	(D)	
355	Special-industry machinery, n.e.c.....	104	39	3,554	12,089	2,820	5,866	8,200	20,830	( <sup>2</sup> )	825	(D)	(D)	
3552	Textile machinery.....	84	31	2,970	10,091	2,354	4,941	6,844	17,667	28,378	672	1,048	5,288	
3553	Woodworking machinery.....	9	3	248	1,013	189	401	604	1,338	2,157	34	733	(D)	
3559	Special-industry machinery, n.e.c.....	8	5	314	906	260	493	702	1,745	2,917	115	148	(D)	
356	General industrial machinery.	12	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
3566	Power-transmission equipment...	4	2	121	520	90	213	347	863	1,528	60	(D)	(D)	
358	Service and household ma- chines.....	6	2	312	1,288	203	429	614	1,533	( <sup>2</sup> )	67	(D)	(D)	
3585	Refrigeration machinery.....	3	2	285	1,146	183	386	538	1,005	( <sup>2</sup> )	62	(D)	(D)	
359	Miscellaneous machine parts..	52	11	971	3,394	796	1,649	2,446	5,645	( <sup>2</sup> )	420	386	1,151	
3599	Machine shops.....	45	9	836	2,796	705	1,448	2,128	4,591	6,664	333	386	1,151	
36	Electrical machinery.....	30	22	10,992	40,127	7,266	14,165	22,096	68,203	( <sup>2</sup> )	19,868	(D)	(D)	
366	Communication equipment.....	11	11	8,608	31,876	5,367	10,469	16,257	49,185	( <sup>2</sup> )	(D)	(D)	(D)	
3661	Radios and related products....	11	11	8,608	31,876	5,367	10,469	16,257	49,185	( <sup>2</sup> )	(D)	(D)	(D)	
369	Electrical products, n.e.c....	8	6	1,125	3,711	960	1,743	2,813	7,221	( <sup>2</sup> )	(D)	(D)	(D)	
37	Transportation equipment...	57	16	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1,231	5,218	
371	Motor vehicles and equipment.	21	8	1,159	3,835	947	1,839	2,739	6,737	( <sup>2</sup> )	169	780	3,680	
3717	Motor vehicles and parts.....	6	3	584	1,695	459	838	1,231	3,818	( <sup>2</sup> )	60	373	(D)	
373	Ships and boats.....	30	5	357	1,181	318	666	970	1,300	( <sup>2</sup> )	65	246	735	
38	Instruments and related products.....	14	2	779	2,639	600	1,138	1,765	4,302	( <sup>2</sup> )	147	43	199	
384	Medical equipment and sup- plies.....	12	1	275	578	252	454	485	914	( <sup>2</sup> )	29	(D)	(D)	
3842	Surgical appliances & supplies.	9	1	246	502	226	403	420	736	912	(D)	35	(D)	
39	Miscellaneous manufactures.	104	19	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	969	2,854	
394	Toys and sporting goods.....	18	5	392	865	317	583	563	1,630	( <sup>2</sup> )	53	(D)	(D)	
3941	Games and toys, n.e.c.....	8	3	238	633	173	326	361	1,177	2,321	28	(D)	(D)	
3971	Plastics products, n.e.c.....	4	3	208	642	184	401	527	1,170	3,056	18	(D)	(D)	
398	Miscellaneous manufactures...	70	9	927	2,275	790	1,489	1,713	3,399	( <sup>2</sup> )	116	781	2,245	
399		25	...	167	341	141	255	292	569	1,380	11	174	(D)	
3981		Brooms and brushes.....	16	7	440	1,055	378	693	783	1,505	3,414	45	412	1,078
3988		Morticians' goods.....	26	1	161	523	119	236	330	853	1,299	36	121	602
3993		Matches.....	26	1	161	523	119	236	330	853	1,299	36	121	602

Footnotes for Table 4 on next page.

Footnotes for Table 4.--North Carolina.

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industries (4-digit) and industry groups (3-digit) are not shown. Industries and industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "all industries" line.

<sup>2</sup>The total value of shipments figures for industry groups and a few individual industries have not been published due to the extensive and unmeasurable duplication arising from shipments from one establishment to another in the same industry classification. (See Introduction.)

<sup>3</sup>The 1954 and 1947 "all industries" totals are not strictly comparable because of differences in scope between the two years in major groups 20 and 24 (see footnote 4).

<sup>4</sup>Comparable data for Major groups 20 and 24 are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude establishments in S.I.C. Industry 2411, Logging Camps and Contractors, which are included in the scope of the 1954 Census; the 1947 Census also excludes plants processing and distributing fluid milk which in 1954 were classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
20	Food and kindred products except subgroup 202, Dairy products.....	20,346	119,946	15,557	71,745
24	Lumber and wood products except Industry 2411, Logging camps and contractors.....	29,585	93,406	31,087	84,127

Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUPS: 1954 AND 1947

(This State contained no standard metropolitan area with 40,000 or more manufacturing employees in 1954 or 1947)



## MANUFACTURES—AREA STATISTICS

Table 6.—GENERAL STATISTICS FOR PRINCIPAL INDUSTRIAL COUNTIES, BY MAJOR INDUSTRY GROUP: 1954 AND 1947

(Principal industrial counties include all counties with 20,000 or more manufacturing employees. For explanation of column captions see Introduction)

Code	Major industry group	1954								1947	
		Establish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendit- ures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
CABARRUS COUNTY											
	All industries, total <sup>1</sup> .....	63	22,239	55,136	21,133	38,310	50,126	76,384	1,764	<sup>2</sup> 22,525	<sup>2</sup> 106,016
20	Food and kindred products.....	13	324	849	245	464	448	2,247	73	179	(D)
27	Printing and publishing.....	6	118	396	67	131	225	640	16	82	(D)
FORSYTH COUNTY											
	All industries, total <sup>1</sup> .....	187	29,930	96,515	24,498	46,431	69,027	303,756	18,956	<sup>2</sup> 27,368	<sup>2</sup> 177,425
20	Food and kindred products.....	36	1,353	4,342	780	1,590	1,913	9,693	830	1,293	(D)
22	Textile mill products.....	20	8,479	23,846	7,823	14,357	20,061	38,887	3,415	6,677	23,347
23	Apparel and related products..	3	209	451	192	350	315	462	1	339	(D)
24	Lumber, and wood products.....	22	514	1,207	462	854	965	1,811	67	672	(D)
25	Furniture and fixtures.....	12	1,073	3,235	988	2,113	2,537	5,316	120	1,027	3,332
27	Printing and publishing.....	22	483	1,861	370	715	1,425	3,055	118	372	(D)
28	Chemicals and products.....	10	166	509	107	204	254	1,267	48	205	(D)
32	Stone, clay, & glass products.	7	158	478	133	281	331	743	53	80	332
34	Fabricated metal products.....	9	491	1,707	421	809	1,304	3,781	190	844	(D)
35	Machinery, except electrical..	12	522	1,940	380	770	1,164	2,215	145	122	434
GASTON COUNTY											
	All industries, total <sup>1</sup> .....	219	27,192	68,685	25,269	48,741	59,734	115,165	7,307	<sup>2</sup> 29,607	<sup>2</sup> 123,378
20	Food and kindred products.....	15	353	1,054	191	407	453	2,289	151	269	1,214
22	Textile mill products.....	102	24,487	60,573	23,211	44,534	54,303	99,478	6,714	28,306	117,466
23	Apparel and related products..	4	107	203	96	168	167	384	8	(D)	(D)
24	Lumber and wood products.....	18	181	366	151	316	281	320	28	72	193
27	Printing and publishing.....	15	263	1,069	184	389	632	1,593	91	92	428
32	Stone, clay, & glass products.	5	104	240	80	167	164	995	24	64	274
35	Machinery, except electrical..	36	841	2,922	675	1,431	2,034	4,598	137	483	2,426
GUILFORD COUNTY											
	All industries, total <sup>1</sup> .....	510	37,380	104,332	33,045	59,654	77,484	169,106	8,190	<sup>2</sup> 28,843	<sup>2</sup> 125,935
20	Food and kindred products.....	48	2,476	7,571	2,028	3,065	3,262	18,996	1,515	1,430	(D)
22	Textile mill products.....	69	18,635	45,845	17,450	30,725	39,506	68,173	4,122	16,517	73,072
23	Apparel and related products..	16	3,071	5,756	2,801	4,679	4,750	8,566	184	1,680	5,010
24	Lumber and wood products.....	66	1,161	3,135	1,048	1,979	2,429	5,175	163	1,120	3,812
25	Furniture and fixtures.....	109	4,652	13,681	1,012	7,646	9,947	23,624	401	3,774	13,614
26	Pulp, paper and products.....	10	758	2,578	625	1,357	1,776	5,864	97	341	2,357
27	Printing and publishing.....	49	931	3,652	584	1,131	2,037	5,640	174	666	630
28	Chemicals and products.....	27	937	4,592	788	1,610	2,457	10,748	504	781	6,747
30	Rubber products.....	5	185	496	164	312	378	1,079	2	(NA)	(NA)
32	Stone, clay, & glass products.	13	653	2,276	564	1,217	1,616	3,064	259	548	2,106
33	Primary metal industries.....	7	111	375	101	223	306	545	15	107	385
34	Fabricated metal products.....	26	977	3,799	781	1,566	2,361	6,147	356	585	1,982
37	Machinery, except electrical..	37	711	2,697	572	1,173	1,791	4,277	196	618	(D)
39	Miscellaneous manufactures....	19	243	701	189	340	447	1,096	28	94	419
MECKLENBURG COUNTY											
	All industries, total <sup>1</sup> .....	385	21,635	68,387	17,067	33,653	45,829	128,770	5,589	<sup>2</sup> 18,200	<sup>2</sup> 80,465
20	Food and kindred products.....	64	4,592	14,867	2,741	5,760	7,100	33,790	1,092	(NA)	(NA)
22	Textile mill products.....	52	7,409	20,531	6,858	13,015	17,508	33,858	1,364	(NA)	(NA)
23	Apparel and related products..	21	581	1,104	526	922	898	1,757	67	(NA)	(NA)
24	Lumber and wood products.....	21	334	967	264	547	637	1,245	80	(NA)	(NA)
25	Furniture and fixtures.....	21	816	2,832	690	1,472	2,143	4,884	300	(NA)	(NA)
26	Pulp, paper and products.....	12	744	2,123	637	1,321	1,626	4,244	291	(NA)	(NA)
27	Printing and publishing.....	45	1,484	5,900	964	1,890	3,339	9,860	373	(NA)	(NA)
28	Chemicals and products.....	33	1,003	3,572	694	1,444	1,804	9,189	698	(NA)	(NA)
32	Stone, clay, & glass products.	14	618	1,759	530	967	1,215	3,236	59	(NA)	(NA)
33	Primary metal industries.....	6	530	1,982	498	1,015	1,681	2,972	46	(NA)	(NA)
34	Fabricated metal products.....	28	697	2,942	467	968	1,573	5,905	355	(NA)	(NA)
35	Machinery, except electrical..	44	1,924	6,939	1,458	2,981	4,189	12,787	672	(NA)	(NA)
39	Miscellaneous manufactures....	6	119	346	95	190	254	445	11	(NA)	(NA)

D Withheld to avoid disclosing data for individual companies.

<sup>1</sup>In order to avoid disclosing data for individual companies, the statistics for some industry groups are not shown. Industry groups reporting less than 100 employees are also omitted. They are included, however, in the "All industries" line.<sup>2</sup>The 1954 and 1947 "All industries" totals are not strictly comparable because of differences in coverage of loggers and fluid milk distributors. See discussion in Introduction and footnote to Table 4 for comparable figures at the State level.

20 Food and kindred products	26 Pulp, paper and products	32 Stone, clay, and glass products	38 Instruments and related products
21 Tobacco manufactures	27 Printing and publishing	33 Primary metal industries	39 Miscellaneous manufactures (Includes Group 19 Ordnance and accessories)
22 Textile mill products	28 Chemicals and products	34 Fabricated metal products	
23 Apparel and related products	29 Petroleum and coal products	35 Machinery, except electrical	
24 Lumber and wood products	30 Rubber products	36 Electrical machinery	
25 Furniture and fixtures	31 Leather and leather goods	37 Transportation equipment	

(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establish- ments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
North Carolina, total.....	6,645	846	57	1,030	207	2,485	430	67	429	215	6	18	35	233	40	134	208	30	57	14	104
1 to 4 employees.....	2,239	232	...	74	34	1,238	125	6	191	61	1	5	13	64	9	44	65	3	23	7	44
5 to 9 employees.....	1,089	163	...	55	12	521	48	4	96	30	2	7	5	45	7	26	29	4	12	3	20
10 to 19 employees.....	947	151	...	87	17	381	45	10	59	39	1	4	5	41	7	25	45	1	6	2	21
20 to 49 employees.....	925	168	5	161	34	220	75	17	53	52	1	...	5	46	12	19	41	3	5	...	8
50 to 99 employees.....	541	75	10	161	48	83	44	11	19	21	1	...	2	26	3	7	13	3	5	...	9
100 to 249 employees.....	505	52	27	224	38	35	56	10	6	9	...	1	4	7	...	10	12	7	4	1	2
250 to 499 employees.....	250	3	7	159	20	6	28	4	5	...	...	...	1	4	1	2	3	6	1	...	...
500 to 999 employees.....	105	1	3	83	3	1	7	2	...	1	...	1	...	...	...	1	...	1	...	1	...
1,000 to 2,499 employees.....	38	1	4	24	1	...	2	3	...	1	...	...	...	...	1	...	...	1	...	...	...
2,500 employees and over.....	6	...	1	2	0	...	...	...	...	1	...	...	...	...	...	...	...	1	1	...	...
Alamance:																					
1 to 19 employees.....	63	12	...	18	2	15	5	...	6	1	...	...	1	2	...	...	1	...	...	...	...
20 to 99 employees.....	55	6	...	35	3	2	2	1	1	...	...	...	...	1	1	...	1	...	...	...	2
100 employees and over.....	35	...	...	31	...	...	2	1	...	...	...	...	...	...	...	...	...	...	1	...	...
Alexander:																					
1 to 19 employees.....	30	1	...	4	...	18	2	...	1	...	...	...	...	1	...	3	...	...	...	...	...
20 to 99 employees.....	4	...	...	2	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	4	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Alleghany:																					
1 to 19 employees.....	6	...	...	...	...	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	3	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Anson:																					
1 to 19 employees.....	45	4	...	...	...	35	...	...	1	2	...	...	...	2	...	...	...	...	...	1	...
20 to 99 employees.....	7	...	...	1	2	2	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	5	...	...	4	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Ashe:																					
1 to 19 employees.....	27	2	...	1	...	24	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	5	2	...	...	...	2	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
Avery:																					
1 to 19 employees.....	13	...	...	1	...	8	...	...	1	2	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	3	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...
Beaufort:																					
1 to 19 employees.....	47	8	...	...	1	29	3	...	3	1	...	...	...	...	...	...	...	...	2	...	...
20 to 99 employees.....	12	6	...	1	...	4	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Bertie:																					
1 to 19 employees.....	42	6	...	...	...	36	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	4	...	...	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	3	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
Bladen:																					
1 to 19 employees.....	64	1	...	...	...	61	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	3	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Brunswick:																					
1 to 19 employees.....	24	1	...	...	...	18	1	...	1	1	...	...	...	...	1	...	...	...	1	...	...
20 to 99 employees.....	4	...	...	...	...	1	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
Buncombe:																					
1 to 19 employees.....	110	13	...	11	4	34	4	...	12	6	...	1	3	2	...	5	3	1	...	2	9
20 to 99 employees.....	35	9	...	4	4	3	1	1	2	...	...	...	1	2	...	1	4	...	...	...	3
100 employees and over.....	18	3	...	4	2	3	1	...	1	1	...	...	1	...	...	...	...	1	1	...	...
Burke:																					
1 to 19 employees.....	59	2	...	8	...	38	6	1	3	...	...	...	...	...	...	...	1	...	...	...	...
20 to 99 employees.....	21	...	...	14	1	4	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	22	2	...	13	1	...	5	...	...	...	...	...	...	...	...	...	...	1	...	...	...
Cabarrus:																					
1 to 19 employees.....	32	7	...	5	2	8	...	...	4	1	...	...	...	1	1	...	3	...	...	...	...
20 to 99 employees.....	14	6	...	4	1	...	...	1	2	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	17	...	...	17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Caldwell:																					
1 to 19 employees.....	37	4	...	2	...	22	2	...	1	2	...	...	...	2	...	1	...	...	...	...	1
20 to 99 employees.....	18	...	...	5	1	7	...	...	2	1	...	...	...	2	...	...	...	...	...	...	...
100 employees and over.....	28	...	...	12	1	...	15	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Camden:																					
1 to 19 employees.....	6	...	...	...	...	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Carteret:																					
1 to 19 employees.....	30	6	...	1	...	8	1	...	2	...	1	...	...	1	...	...	...	...	9	...	1
20 to 99 employees.....	7	...	...	...	...	1	...	1	...	2	1	...	...	...	...	...	...	...	1	...	1
100 employees and over.....	2	...	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
Caswell:																					
1 to 19 employees.....	14	1	...	...	...	12	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	2	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Catawba:																					
1 to 19 employees.....	136	12	...	28	2	30	24	...	10	5	...	2	...	8	...	3	7	...	2	...	3
20 to 99 employees.....	117	8	...	61	6	6	23	3	2	...	...	...	...	1	...	3	3	1	...	...	...
100 employees and over.....	33	...	...	23	3	...	8	...	...	...	...	...	...	...	...	1	...	...	...	...	...
Chatham:																					
1 to 19 employees.....	77	5	...	...	...	70	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	11	3	...	...	...	5	1	...	...	...	...	...	...	2	...	...	...	...	...	...	...
100 employees and over.....	11	2	...	6	1	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...





Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954—Continued  
(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establish- ments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Harnett:																					
1 to 19 employees.....	45	3	...	...	...	31	1	...	4	1	...	...	...	2	...	1	1	...	...	...	1
20 to 99 employees.....	9	1	...	...	2	3	...	...	...	1	...	...	...	1	...	...	1	...	...	...	...
100 employees and over.....	2	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Haywood:																					
1 to 19 employees.....	21	3	...	...	...	9	2	...	2	4	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	8	2	...	1	...	3	...	...	1	...	...	...	1	...	...	...	...	...	...	...	...
100 employees and over.....	6	...	...	...	...	...	1	2	...	...	...	...	1	2	...	...	...	...	...	...	...
Henderson:																					
1 to 19 employees.....	28	5	...	2	1	6	1	...	3	1	...	...	5	3	...	...	...	1	...	...	...
20 to 99 employees.....	16	1	...	6	2	1	...	1	1	...	...	...	1	2	...	...	1	...	...	...	...
100 employees and over.....	5	...	...	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hertford:																					
1 to 19 employees.....	30	1	...	...	...	28	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	7	...	...	...	...	6	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hoke:																					
1 to 19 employees.....	6	...	...	1	...	4	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	5	1	...	1	...	1	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hyde:																					
1 to 19 employees.....	8	2	...	...	...	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Iredell:																					
1 to 19 employees.....	68	15	...	1	3	29	2	1	6	2	...	...	1	4	1	1	1	...	...	...	1
20 to 99 employees.....	40	9	...	7	7	3	8	...	1	1	...	...	...	2	1	...	...	...	...	...	1
100 employees and over.....	24	1	...	10	3	2	5	...	...	...	...	...	...	...	...	1	2	...	...	...	...
Jackson:																					
1 to 19 employees.....	15	1	...	...	...	11	2	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	...	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...	...
Johnston:																					
1 to 19 employees.....	48	10	...	...	...	27	...	...	4	2	...	...	...	2	...	2	1	...	...	...	...
20 to 99 employees.....	10	2	...	...	...	5	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	8	...	1	5	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Jones:																					
1 to 19 employees.....	11	...	...	...	...	11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Lee:																					
1 to 19 employees.....	64	5	...	...	...	44	1	...	4	6	...	...	...	2	...	2	...	...	...	...	...
20 to 99 employees.....	17	3	...	1	1	7	...	...	...	...	...	...	...	3	2	...	...	...	...	...	...
100 employees and over.....	8	...	1	1	1	...	1	...	...	...	...	...	...	1	...	...	2	1	...	...	...
Lenoir:																					
1 to 19 employees.....	27	6	...	...	...	8	2	...	3	2	...	...	...	4	...	...	2	...	...	...	...
20 to 99 employees.....	15	3	2	1	...	3	...	1	1	1	...	...	...	1	1	...	1	...	...	...	...
100 employees and over.....	9	1	3	1	3	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
Lincoln:																					
1 to 19 employees.....	41	9	...	3	...	15	2	...	3	...	...	...	...	3	1	2	2	...	...	...	1
20 to 99 employees.....	10	...	...	3	...	1	4	...	...	...	...	...	...	...	1	...	1	...	...	...	...
100 employees and over.....	10	...	...	9	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
McDowell:																					
1 to 19 employees.....	26	1	...	6	1	11	1	1	2	...	...	...	...	2	...	...	...	...	...	...	1
20 to 99 employees.....	18	1	...	13	...	2	...	1	...	...	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	7	...	...	5	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Macon:																					
1 to 19 employees.....	23	6	...	...	...	11	...	...	1	...	...	...	...	4	...	...	1	...	...	...	...
20 to 99 employees.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Madison:																					
1 to 19 employees.....	13	...	...	...	...	12	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	2	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
Martin:																					
1 to 19 employees.....	30	6	...	...	...	20	...	...	2	...	...	...	...	...	...	1	1	...	...	...	...
20 to 99 employees.....	6	...	2	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	3	...	...	...	1	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Mecklenburg:																					
1 to 19 employees.....	217	27	...	21	11	14	10	4	30	21	1	4	2	8	3	21	28	2	1	4	5
20 to 99 employees.....	118	24	...	15	9	7	8	7	12	10	...	...	1	4	2	6	11	...	1	...	1
100 employees and over.....	50	13	...	16	1	...	3	1	3	2	...	...	...	2	1	1	5	1	1	...	...
Mitchell:																					
1 to 19 employees.....	17	1	...	2	...	10	...	...	2	...	...	...	...	2	...	...	...	...	...	...	...
20 to 99 employees.....	9	...	...	3	1	2	...	...	...	...	...	...	...	3	...	...	...	...	...	...	...
Montgomery:																					
1 to 19 employees.....	81	4	...	3	1	67	1	...	2	...	...	1	...	1	...	...	1	...	...	...	...
20 to 99 employees.....	9	1	...	2	...	3	2	...	...	...	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	7	...	...	6	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Moore:																					
1 to 19 employees.....	75	6	...	2	3	48	...	...	9	...	...	1	...	3	...	...	...	...	...	...	1
20 to 99 employees.....	12	2	...	4	...	3	1	...	2	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	4	...	...	3	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Nash:																					
1 to 19 employees.....	39	6	...	3	...	19	1	...	5	...	...	...	...	2	...	...	1	...	1	...	1
20 to 99 employees.....	20	5	...	...	2	9	1	...	1	1	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	8	1	3	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
New Hanover:																					
1 to 19 employees.....	62	14	...	...	3	22	2	1	5	3	1	...	...	5	...	2	1	...	1	1	1
20 to 99 employees.....	26	10	...	2	...	4	...	...	2	7	...	...	...	...	...	...	1	...	...	...	...
100 employees and over.....	13	3	...	2	4	2	...	...	1	...	...	...	...	...	...	1	...	...	...	...	...



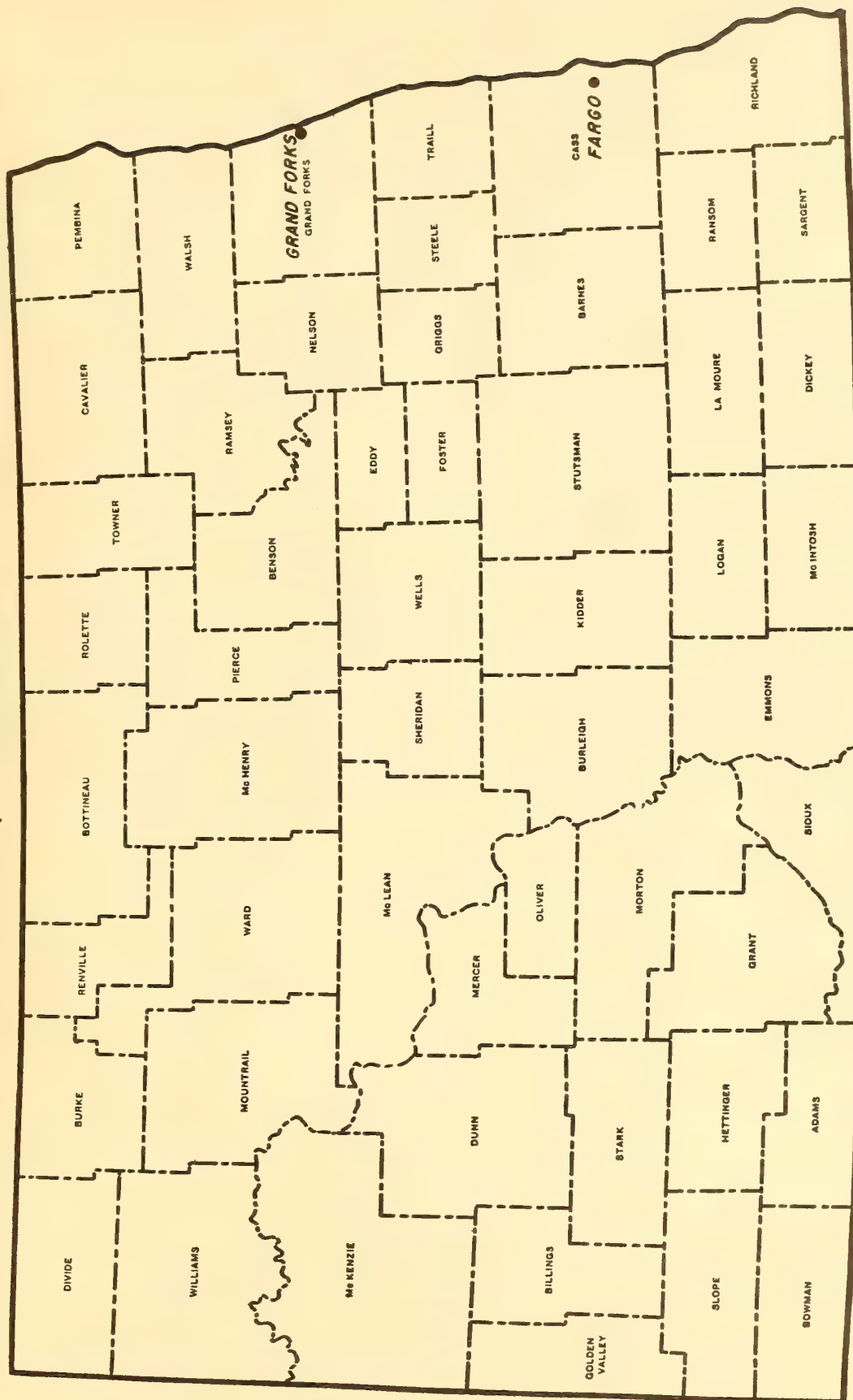
Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954—Continued  
(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Transylvania:																					
1 to 19 employees.....	18	1	...	...	...	14	1	...	1	...	...	...	1	...	...	...	...	...	...	...	...
20 to 99 employees.....	3	...	...	1	...	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
100 employees and over.....	6	...	...	2	...	1	...	1	...	1	...	...	1	...	...	...	...	...	...	...	...
Tyrrell:																					
1 to 19 employees.....	4	...	...	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Union:																					
1 to 19 employees.....	30	6	...	2	2	13	...	1	4	2	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	19	6	...	3	3	3	1	...	...	...	...	...	...	2	...	...	...	...	...	...	...
100 employees and over.....	6	...	...	3	2	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Vance:																					
1 to 19 employees.....	16	6	...	...	...	6	...	...	2	...	...	...	...	...	...	1	1	...	...	...	...
20 to 99 employees.....	8	...	...	3	...	2	...	...	...	1	...	...	...	1	...	...	...	...	1	...	...
100 employees and over.....	4	...	1	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Wake:																					
1 to 19 employees.....	117	16	...	...	...	55	6	1	15	4	...	1	...	4	1	4	3	...	3	...	4
20 to 99 employees.....	34	7	2	...	1	7	1	...	7	1	...	...	...	3	...	3	1	1	...	...	...
100 employees and over.....	16	5	...	5	1	...	...	...	2	...	...	...	...	...	...	1	...	2	...	...	...
Warren:																					
1 to 19 employees.....	27	3	...	...	...	21	...	...	2	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	6	1	...	...	...	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Washington:																					
1 to 19 employees.....	13	3	...	...	...	7	...	...	1	2	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	3	...	...	...	...	1	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...
Watauga:																					
1 to 19 employees.....	14	3	...	...	1	8	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
Wayne:																					
1 to 19 employees.....	47	15	...	...	...	17	2	...	6	1	...	...	...	3	...	1	...	1	...	...	1
20 to 99 employees.....	14	5	...	...	...	5	...	...	1	3	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	9	1	1	1	...	2	1	...	...	...	...	...	...	...	...	2	...	1	...	...	...
Wikes:																					
1 to 19 employees.....	80	4	...	1	1	59	8	...	3	...	...	...	...	3	...	...	...	...	1	...	...
20 to 99 employees.....	10	2	...	1	...	2	2	...	...	...	...	...	...	...	1	...	1	...	...	...	1
100 employees and over.....	10	1	...	2	1	...	5	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Wilson:																					
1 to 19 employees.....	36	11	...	...	...	17	3	...	2	...	...	...	...	1	...	...	...	...	...	...	2
20 to 99 employees.....	20	4	1	...	1	5	...	...	1	3	...	...	...	2	...	...	1	...	2	...	...
100 employees and over.....	7	...	3	1	2	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
Yadkin:																					
1 to 19 employees.....	35	1	...	1	...	27	...	...	3	...	...	...	...	2	...	...	...	...	1	...	...
20 to 99 employees.....	4	1	...	1	...	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...
Yancey:																					
1 to 19 employees.....	10	1	...	...	...	7	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	4	...	...	1	...	2	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...






# NORTH DAKOTA (53 COUNTIES)



## LEGEND

- PLACES OF 25,000 TO 100,000 (1950)
- ★ PLACES OF 100,000 AND OVER (1950) - *NONE*
-  STANDARD METROPOLITAN AREAS - *NONE*

# MANUFACTURES—AREA STATISTICS

133-2

Table 1.—MANUFACTURING EMPLOYMENT AT OPERATING ESTABLISHMENTS AND CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARIES FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS

(This table includes data for all manufacturing employees including those located in central administrative offices and auxiliaries. Tables 2-7 in this report include data for operating establishments only. For explanation of column captions see Introduction)

State, standard metropolitan areas, and year <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	(Number)	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
North Dakota:						
1954.....	5,613	19,228	5,604	19,189	9	39
1953 <sup>2</sup> .....	7,814	24,379	7,796	24,175	18	204
1952 <sup>2</sup> .....	5,896	16,745	5,896	16,745	(3)	(3)
1954						
Standard Metropolitan Areas:						
(None in this State)						

<sup>1</sup>Employment data for administrative offices and auxiliaries on a State basis are not available for the years prior to 1949. Similar data for standard metropolitan areas are available only for 1954.

<sup>2</sup>The employment figures for operating manufacturing establishments for 1952-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period. The employment figures for administrative and auxiliary units were compiled chiefly from Bureau of Old-Age and Survivors Insurance records and are not strictly comparable with the figures for these units that were collected by the Bureau of the Census for the year 1954.

<sup>3</sup>The administrative and auxiliary unit data are combined with that for operating manufacturing establishments to avoid disclosing figures for individual companies.



Table 2.—GENERAL STATISTICS FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Year	Establish- ments, number	All employees		Production workers		Value added by manufacture (\$1,000)			
		Number	Payroll (\$1,000)	Number	Wages (\$1,000)				
NORTH DAKOTA									
1954 <sup>1</sup> .....	367	5,604	19,189	3,913	12,517	34,991			
1953 <sup>2</sup> .....	} (NA) {	7,796	24,175	5,398	15,958	46,765			
1952 <sup>2</sup> .....		5,896	16,745	4,049	11,134	31,201			
1947.....		361	5,209	12,321	3,817	8,476	29,431		
1939.....		342	4,075	4,968	2,605	2,737	10,984		
1937.....		340	3,693	4,625	2,854	3,192	10,266		
1935.....	320	3,382	4,079	2,551	2,742	8,976			
1933.....	268	} (NA) {	(NA)	} (NA) {	3,103	3,290	9,840		
1931.....	325				3,306	4,600	11,921		
1929.....	373				4,024	5,687	15,637		
1927.....	307				3,260	4,808	12,732		
1925.....	320	} (NA) {	(NA)	} (NA) {	3,261	4,575	12,325		
1923.....	340				3,552	5,134	11,441		
1921.....	388				3,107	4,669	10,093		
1919.....	755				5,033	6,424	4,169	5,033	12,198
1914.....	693				4,008	3,291	3,262	2,408	6,641
1909.....	752	3,425	2,416	2,789	1,787	5,464			
1904.....	507	2,051	1,289	1,755	1,031	3,122			
1899.....	337	1,510	801	1,358	671	2,109			

STANDARD METROPOLITAN AREAS  
(None in this State)

NA Not available.

<sup>1</sup>The 1954 figures include data for establishments engaged in the processing and distribution of fluid milk, Industry Group 202, Dairy Products. These establishments were not included in the figures for the Annual Survey years 1951-1953 or earlier Census years. In addition, the 1954 Census and Annual Survey years include data for Logging camps and contractors, Industry 2411, which were not included within the scope of the 1947 Census. See footnotes to Table 4 for comparable 1954 and 1947 totals. There were also a number of changes in the definition of manufacturing industries during earlier Census years that affect the comparability of the historical series. Among the more important of these were: figures for 1935 and later years exclude data for "Railroad repair shops" and "Manufactured gas" which were included in 1899-1933 figures; the minimum size of establishment included for 1954 and 1947 was one employee, for 1939-1921 manufacturing establishments reporting value of shipments of \$5,000 or more were within scope whereas for 1919 and earlier years the cutoff was \$500. (This change in procedure has not appreciably affected the comparability of the historical data except for the figures on number of establishments.)

<sup>2</sup>The employment and payroll figures for operating manufacturing establishments for 1952-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period.

## MANUFACTURES—AREA STATISTICS

Table 3.--GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
North Dakota, total.....	619,636	367	5,604	19,189	3,913	8,323	12,517	34,991	16,244	(1)	(1)
STANDARD METROPOLITAN AREAS (None in this State)											
COUNTIES											
Adams.....	4,910	6	38	89	23	52	53	135	21	19	(D)
Barnes.....	16,884	9	158	473	124	279	378	1,083	92	136	1,310
Benson.....	10,675	4	10	25	8	17	21	48	3	(D)	(D)
Billings.....	1,777	...	...	...	...	...	...	...	...	...	...
Bottineau.....	12,140	6	68	184	34	74	101	509	28	(D)	(D)
Bowman.....	4,001	3	7	(D)	5	(D)	(D)	(D)	(D)	9	25
Burke.....	6,621	...	...	...	...	...	...	...	...	(D)	(D)
Burleigh.....	25,673	19	385	1,373	250	525	812	2,615	292	275	1,626
Cass.....	58,777	60	1,871	7,072	1,355	2,827	4,760	10,799	(D)	1,748	8,362
Cavalier.....	11,840	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Dickey.....	9,121	4	11	23	8	14	19	61	(D)	138	(D)
Divide.....	5,967	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	12	(D)
Dunn.....	7,212	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Eddy.....	5,372	3	44	(D)	35	(D)	(D)	(D)	(D)	(D)	(D)
Emmons.....	9,715	4	22	42	19	32	37	73	10	(D)	(D)
Foster.....	5,337	4	41	104	35	66	86	110	(D)	113	(D)
Golden Valley.....	3,499	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Grand Forks.....	39,443	26	656	2,467	439	932	1,567	4,706	161	924	6,970
Grant.....	7,114	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6	22
Griggs.....	5,460	3	19	(D)	15	(D)	(D)	(D)	(D)	(D)	(D)
Hettinger.....	7,100	3	11	28	8	17	21	52	(D)	18	50
Kidder.....	6,168	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Lamoure.....	9,498	5	54	128	33	87	91	232	20	11	38
Logan.....	6,357	3	15	(D)	13	(D)	(D)	(D)	(D)	17	(D)
McHenry.....	12,556	8	25	50	18	41	36	71	12	12	27
McIntosh.....	7,590	5	25	59	19	43	44	86	6	15	(D)
McKenize.....	6,849	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
McLean.....	18,824	7	29	66	21	41	47	121	9	13	59
Mercer.....	8,686	4	22	69	17	37	49	176	32	6	37
Morton.....	19,295	16	347	1,281	219	499	711	3,413	13,096	250	(D)
Mountrail.....	9,418	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Nelson.....	8,090	7	11	25	9	15	18	50	7	15	99
Oliver.....	3,091	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Pembina.....	13,990	3	10	26	7	15	19	52	2	6	25
Pierce.....	8,326	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	27	147
Ramsey.....	14,373	11	134	433	84	192	249	850	118	167	534
Ransom.....	8,876	4	12	31	8	18	19	41	(D)	5	17
Renville.....	5,405	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	9	29
Richland.....	19,865	10	120	423	83	170	238	510	58	198	540
Rolette.....	11,102	6	104	235	91	167	168	371	9	14	76
Sargent.....	7,616	5	40	115	34	81	108	382	22	10	(D)
Sheridan.....	5,253	3	7	(D)	5	(D)	(D)	(D)	(D)	5	(D)
Sioux.....	3,696	...	...	...	...	...	...	...	...	...	...
Slope.....	2,315	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...	...
Stark.....	16,137	14	203	640	140	320	462	1,032	755	163	438
Steele.....	5,145	5	14	19	10	21	14	54	(D)	(D)	(D)
Stutsman.....	24,158	8	177	618	112	257	352	1,154	64	129	624
Towner.....	6,360	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Traill.....	11,359	7	35	88	29	81	81	314	26	32	226
Walsh.....	18,859	7	61	178	44	83	121	288	10	28	176
Ward.....	34,782	38	490	1,653	313	680	989	3,456	150	470	3,528
Wells.....	10,417	4	30	76	18	40	48	285	(D)	(D)	(D)
Williams.....	16,442	12	181	564	125	258	389	1,013	66	96	339
CITIES WITH 10,000 INHAB- ITANTS OR MORE											
Bismarck.....	18,640	18	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Fargo.....	38,256	48	1,357	(D)	964	(D)	(D)	(D)	(D)	1,692	8,198
Grand Forks.....	26,836	18	413	(D)	244	(D)	(D)	(D)	(D)	660	(D)
Jamestown.....	10,697	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	NA	NA
Minot.....	22,032	29	429	1,481	262	575	855	3,025	130	416	3,227

D Withheld to avoid disclosing figures for individual companies.

NA Not available

1. The 1947 data are not strictly comparable with the figures shown for 1954 due to differences in coverage of loggers and fluid milk distributors. See discussion in Introduction and footnotes to Table 4.

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954										1947	
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
	All industries, total <sup>1</sup> ...	367	65	5,604	19,189	3,913	8,323	12,517	34,991	( <sup>2</sup> )	16,244	( <sup>3</sup> )	( <sup>3</sup> )
20	Food and kindred products..	159	39	3,246	10,739	2,227	4,923	6,968	19,892	( <sup>2</sup> )	1,358	( <sup>3</sup> )	( <sup>3</sup> )
201	Meat products.....	16	7	847	3,422	669	1,547	2,638	4,965	( <sup>2</sup> )	189	1,103	4,204
202	Dairy products.....	87	19	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2021	Creamery butter.....	69	13	972	2,605	642	1,424	1,627	5,388	34,916	455	( <sup>3</sup> )	( <sup>3</sup> )
2027	Fluid milk and other products..	13	4	202	639	116	287	353	1,106	4,292	81	( <sup>3</sup> )	( <sup>3</sup> )
205	Bakery products.....	29	7	747	2,420	471	984	1,323	4,671	( <sup>2</sup> )	518	744	3,809
208	Beverages.....	19	3	220	719	127	235	316	1,189	1,927	63	(D)	(D)
2081	Bottled soft drinks.....	19	3	220	719	127	235	316	1,189	1,927	63	(D)	(D)
23	Apparel and related products.....	1	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
24	Lumber and wood products..	6	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	26	57
25	Pulp, paper and products...	4	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	18	73
27	Printing and publishing....	119	12	1,220	4,374	808	1,540	2,797	7,382	( <sup>2</sup> )	496	961	4,835
2711	Newspapers.....	89	9	995	3,557	651	1,251	2,290	6,315	8,018	379	771	4,038
2751	Commercial printing.....	24	3	198	747	144	265	465	962	1,452	94	156	633
28	Chemical and products.....	6	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	31	482
29	Petroleum and coal products	3	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
30	Rubber products.....	3	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...	...
32	Stone, clay and glass products.....	26	3	253	773	212	470	620	1,561	( <sup>2</sup> )	172	176	616
327	Concrete and plaster products	21	1	175	560	145	327	455	1,191	2,227	151	(D)	(D)
3271	Concrete products.....	21	1	175	560	145	327	455	1,191	2,227	151	(D)	(D)
33	Primary metal industries...	2	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
34	Fabricated metal products..	8	2	216	875	152	318	506	1,355	( <sup>2</sup> )	30	154	626
35	Machinery, except electrical.....	19	2	239	904	182	396	612	1,654	( <sup>2</sup> )	49	79	252
36	Electrical machinery.....	1	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...	(D)	(D)
37	Transportation equipment...	4	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
39	Miscellaneous manufactures.	6	3	159	520	136	279	360	766	( <sup>2</sup> )	33	59	318

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industries (4-digit) and industry groups (3-digit) are not shown. Industries and industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "all industries" line.

<sup>2</sup>The total value of shipments figures for industry groups and a few individual industries have not been published due to the extensive and unmeasurable duplication arising from shipments from one establishment to another in the same industry classification. (See Introduction.)

<sup>3</sup>Comparable data are not available due to differences in the coverage between 1947 and 1954. The 1947 Census excludes plants processing and distributing fluid milk which in 1954 are classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Ind. code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	All industries except subgroup 202, total.....	4,358	28,099	4,267	24,420
20	Food and kindred products except subgroup 202, Dairy products.....	2,000	13,000	2,648	16,837

Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUPS: 1954 AND 1947  
(This State contained no standard metropolitan area with 40,000 or more manufacturing employees in 1954 or 1947)

Table 6.—GENERAL STATISTICS FOR PRINCIPAL INDUSTRIAL COUNTIES (THOSE WITH 20,000 OR MORE MANUFACTURING EMPLOYEES), BY MAJOR INDUSTRY GROUPS: 1954 AND 1947

(This State contained no county with 20,000 or more manufacturing employees in 1954 and 1947)



## MANUFACTURES—AREA STATISTICS

Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954

20 Food and kindred products	26 Pulp, paper and products	32 Stone, clay, and glass products	38 Instruments and related products
21 Tobacco manufactures	27 Printing and publishing	33 Primary metal industries	39 Miscellaneous manufactures (Includes Group 19 Ordnance and accessories)
22 Textile mill products	28 Chemicals and products	34 Fabricated metal products	
23 Apparel and related products	29 Petroleum and coal products	35 Machinery, except electrical	
24 Lumber and wood products	30 Rubber products	36 Electrical machinery	
25 Furniture and fixtures	31 Leather and leather goods	37 Transportation equipment	

(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establish- ments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
North Dakota, total.....	367	159	...	...	1	6	4	...	119	6	3	3	...	26	2	8	19	1	4	...	6
1 to 4 employees.....	183	59	...	...	1	6	1	...	77	4	...	2	...	15	2	5	7	1	1	...	2
5 to 9 employees.....	67	34	...	...	...	...	2	...	20	1	...	1	...	4	...	...	3	...	1	...	1
10 to 19 employees.....	52	27	...	...	...	...	1	...	10	...	...	...	...	4	...	1	7	...	2	...	...
20 to 49 employees.....	42	25	...	...	...	...	...	...	8	1	2	...	...	2	...	1	1	...	...	...	2
50 to 99 employees.....	16	10	...	...	...	...	...	...	2	...	1	...	...	1	...	...	1	...	...	...	1
100 to 249 employees.....	6	3	...	...	...	...	...	...	2	...	...	...	...	...	...	1	...	...	...	...	...
250 to 499 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Adams:																					
1 to 19 employees.....	6	5	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Barnes:																					
1 to 19 employees.....	6	4	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	3	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Benson:																					
1 to 19 employees.....	4	1	...	...	...	...	...	...	2	...	...	...	...	1	...	...	...	...	...	...	...
Bottineau:																					
1 to 19 employees.....	5	1	...	...	...	...	...	...	2	...	...	...	...	...	...	...	2	...	...	...	...
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Bowman:																					
1 to 19 employees.....	5	1	...	...	...	...	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...
Burleigh:																					
1 to 19 employees.....	13	3	...	...	...	1	...	...	4	...	...	...	...	3	...	...	...	...	1	...	1
20 to 99 employees.....	6	4	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
Cass:																					
1 to 19 employees.....	42	10	...	...	...	1	2	...	10	1	...	1	...	3	...	3	6	1	2	...	2
20 to 99 employees.....	14	6	...	...	...	...	...	...	2	1	...	...	...	1	...	1	2	...	...	...	1
100 employees and over.....	4	2	...	...	...	...	...	...	1	...	...	...	...	...	...	1	...	...	...	...	...
Cavalier:																					
1 to 19 employees.....	2	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Dickey:																					
1 to 19 employees.....	4	2	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
Divide:																					
1 to 19 employees.....	2	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Dunn:																					
1 to 19 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Eddy:																					
1 to 19 employees.....	2	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Emmons:																					
1 to 19 employees.....	4	2	...	...	...	...	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...
Foster:																					
1 to 19 employees.....	3	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
Golden Valley:																					
1 to 19 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Grand Forks:																					
1 to 19 employees.....	18	6	...	...	...	1	1	...	5	2	...	...	...	...	...	...	2	...	1	...	...
20 to 99 employees.....	6	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Grant:																					
1 to 19 employees.....	2	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Griggs:																					
1 to 19 employees.....	3	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...
Hettinger:																					
1 to 19 employees.....	3	1	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
Kidder:																					
1 to 19 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
La Moure:																					
1 to 19 employees.....	4	2	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Logan:																					
1 to 19 employees.....	3	2	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
McHenry:																					
1 to 19 employees.....	8	5	...	...	...	...	...	...	2	...	...	...	...	...	...	1	...	...	...	...	...
McIntosh:																					
1 to 19 employees.....	5	2	...	...	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
McKenzie:																					
1 to 19 employees.....	2	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
McLean:																					
1 to 19 employees.....	7	2	...	...	...	...	...	...	4	...	...	1	...	...	...	...	...	...	...	...	...
Mercer:																					
1 to 19 employees.....	4	1	...	...	...	...	...	...	2	...	...	...	...	1	...	...	...	...	...	...	...
Morton:																					
1 to 19 employees.....	11	5	...	...	...	1	...	...	4	...	...	...	...	...	1	...	...	...	...	...	...
20 to 99 employees.....	4	1	...	...	...	...	...	...	1	...	1	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Mountrail:																					
1 to 19 employees.....	2	...	...	...	...	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Nelson:																					
1 to 19 employees.....	7	5	...	...	...	...	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...

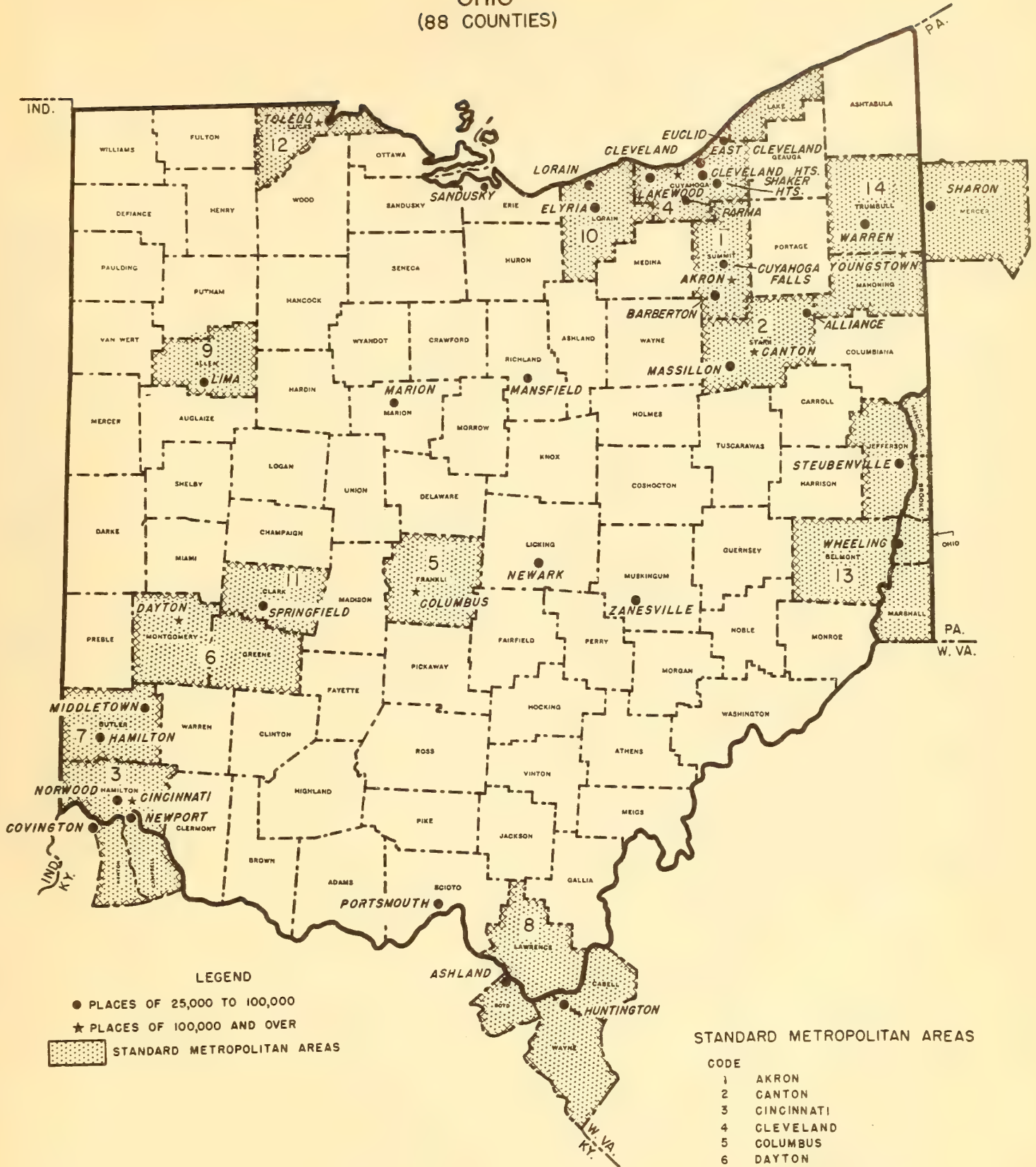
Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954—Continued  
(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establish- ments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Oliver:																					
1 to 19 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Pembina:																					
1 to 19 employees.....	3	1	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
Pierce:																					
1 to 19 employees.....	2	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Ramsey:																					
1 to 19 employees.....	10	5	...	...	...	...	...	...	4	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Ransom:																					
1 to 19 employees.....	4	2	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
Renville:																					
1 to 19 employees.....	2	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Richland:																					
1 to 19 employees.....	8	3	...	...	...	...	...	...	4	...	...	...	...	...	...	1	...	...	...	...	...
20 to 99 employees.....	2	...	...	...	...	...	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...
Rolette:																					
1 to 19 employees.....	3	2	...	...	...	...	...	...	2	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Sargent:																					
1 to 19 employees.....	3	2	...	...	...	...	...	...	2	...	...	...	...	...	...	1	...	...	...	...	...
Sheridan:																					
1 to 19 employees.....	3	2	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Slope:																					
1 to 19 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Stark:																					
1 to 19 employees.....	10	3	...	...	...	...	...	...	4	...	...	...	...	2	...	...	1	...	...	...	...
20 to 99 employees.....	4	1	...	...	...	...	...	...	1	...	2	...	...	...	...	...	...	...	...	...	...
Steele:																					
1 to 19 employees.....	3	2	...	...	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...
Stutsman:																					
1 to 19 employees.....	4	2	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	4	3	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Towner:																					
1 to 19 employees.....	2	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Traill:																					
1 to 19 employees.....	7	4	...	...	...	...	...	...	2	...	...	...	...	1	...	...	...	...	...	...	...
Walsh:																					
1 to 19 employees.....	7	4	...	...	...	...	...	...	2	1	...	...	...	...	...	...	...	...	...	...	...
Ward:																					
1 to 19 employees.....	31	10	...	...	1	1	...	...	9	1	...	...	...	5	1	1	2	...	...	...	...
20 to 99 employees.....	7	5	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1
Wells:																					
1 to 19 employees.....	4	2	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
Williams:																					
1 to 19 employees.....	10	4	...	...	...	...	1	...	1	...	...	1	...	2	...	...	1	...	...	...	...
20 to 99 employees.....	2	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...





OHIO  
(88 COUNTIES)



## MANUFACTURES—AREA STATISTICS

Table 1.—MANUFACTURING EMPLOYMENT AT OPERATING ESTABLISHMENTS AND CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARIES FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS

(This table includes data for all manufacturing employees including those located in central administrative offices and auxiliaries. Tables 2-7 in this report include data for operating establishments only. For explanation of column captions see Introduction)

State, standard metropolitan area, and year <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	(Number)	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
Ohio:						
1954.....	1,296,319	5,841,664	1,267,542	5,655,721	28,777	185,943
1953 <sup>2</sup> .....	1,420,095	6,352,819	1,383,971	6,166,115	36,124	186,704
1952 <sup>2</sup> .....	1,336,020	5,668,114	1,311,233	5,548,298	<sup>3</sup> 24,787	<sup>3</sup> 119,816
1951 <sup>2</sup> .....	1,302,678	5,236,937	1,277,891	5,117,121	24,787	119,816
1950 <sup>2</sup> .....	1,192,224	4,253,902	1,170,623	4,162,022	21,601	91,880
1949 <sup>2</sup> .....	1,103,302	3,688,386	1,078,746	3,585,634	24,556	102,752
1954						
Standard metropolitan areas:						
Akron <sup>4</sup> .....	90,946	421,245	85,905	389,094	5,041	32,151
Canton <sup>5</sup> .....	56,925	248,897	56,762	247,442	163	1,455
Cincinnati <sup>6</sup> .....	154,519	691,713	151,317	673,358	3,202	18,355
Cleveland <sup>7</sup> .....	301,714	1,445,738	291,037	1,376,234	10,677	69,504
Columbus <sup>8</sup> .....	74,016	319,530	72,936	314,521	1,080	5,009
Dayton <sup>9</sup> .....	98,328	470,916	97,117	463,019	1,211	7,897
Hamilton-Middletown <sup>10</sup> .....	33,052	164,221	31,764	152,989	1,288	11,232
Huntington-Ashland <sup>11</sup> .....	24,722	100,137	24,178	97,212	544	2,925
Lima <sup>12</sup> .....	14,722	58,038	14,691	57,831	31	207
Lorain-Elyria <sup>13</sup> .....	30,528	138,576	30,096	136,363	432	2,213
Springfield <sup>14</sup> .....	16,823	70,435	16,823	70,435	...	...
Toledo <sup>15</sup> .....	64,543	319,015	61,123	296,607	3,420	22,408
Wheeling-Steubenville <sup>16</sup> .....	51,298	215,397	49,687	205,685	1,611	9,712
Youngstown <sup>17</sup> .....	106,275	483,973	105,646	479,748	629	4,225

<sup>1</sup>Employment data for administrative offices and auxiliaries on a State basis are not available for the years prior to 1949. Similar data for standard metropolitan areas are available only for 1954.<sup>2</sup>The employment figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period. The employment figures for administrative and auxiliary units were compiled chiefly from Bureau of Old-Age and Survivors Insurance records and are not strictly comparable with the figures for these units that were collected by the Bureau of the Census for the year 1954.<sup>3</sup>The 1951 data are shown for 1952 since auxiliary and administrative unit data were not collected in 1952.<sup>4</sup>The Akron Standard Metropolitan Area consists of Summit County, Ohio.<sup>5</sup>The Canton Standard Metropolitan Area consists of Stark County, Ohio.<sup>6</sup>The Cincinnati Standard Metropolitan Area consists of Hamilton County, Ohio; Campbell and Kenton Counties, Kentucky.<sup>7</sup>The Cleveland Standard Metropolitan Area consists of Cuyahoga and Lake Counties, Ohio.<sup>8</sup>The Columbus Standard Metropolitan Area consists of Franklin County, Ohio.<sup>9</sup>The Dayton Standard Metropolitan Area consists of Greene and Montgomery Counties, Ohio.<sup>10</sup>The Hamilton-Middletown Standard Metropolitan Area consists of Butler County, Ohio.<sup>11</sup>The Huntington-Ashland Standard Metropolitan Area consists of Lawrence County, Ohio; Cabell and Wayne Counties, West Virginia; and Boyd County, Kentucky.<sup>12</sup>The Lima Standard Metropolitan Area consists of Allen County, Ohio.<sup>13</sup>The Lorain-Elyria Standard Metropolitan Area consists of Lorain County, Ohio.<sup>14</sup>The Springfield Standard Metropolitan Area consists of Clark County, Ohio.<sup>15</sup>The Toledo Standard Metropolitan Area consists of Lucas County, Ohio.<sup>16</sup>The Wheeling-Steubenville Standard Metropolitan Area consists of Belmont and Jefferson Counties, Ohio; Brooke, Hancock, Marshall, and Ohio Counties, West Virginia.<sup>17</sup>The Youngstown Standard Metropolitan Area consists of Mahoning and Trumbull Counties, Ohio; Mercer County, Pennsylvania.

Table 2.—GENERAL STATISTICS FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1954 AND EARLIER YEARS  
(For explanation of column captions see Introduction)

Year	Establish- ments, number	All employees		Production workers		Value added by manufacture (\$1,000)			
		Number	Payroll (\$1,000)	Number	Wages (\$1,000)				
OHIO									
1954 <sup>1</sup> .....	14,550	{	1,267,542	5,655,721	986,282	4,018,755	10,156,179		
1953 <sup>2</sup> .....			1,383,971	6,166,115	1,106,329	4,586,641	11,192,103		
1952 <sup>2</sup> .....			1,311,233	5,548,298	1,043,719	4,092,735	10,037,844		
1951 <sup>2</sup> .....			1,277,891	5,117,121	1,028,445	3,802,661	9,396,104		
1950 <sup>2</sup> .....			1,170,623	4,162,022	935,796	3,071,701	7,972,073		
1949.....	12,302	{	1,078,746	3,585,634	860,447	2,595,797	6,412,895		
1947.....			1,194,263	3,559,540	988,110	2,726,991	6,357,957		
1939.....			731,742	1,120,831	595,520	809,399	2,116,434		
1937.....			9,138	798,221	1,200,524	694,205	957,650	2,306,627	
1935.....			9,142	668,115	858,551	579,522	665,855	1,655,136	
1933.....	8,101	{	(NA)	(NA)	{	472,699	439,753	1,140,467	
1931.....	9,877		(NA)	(NA)	{	506,960	593,025	1,576,176	
1929.....	11,855		853,385	1,404,180	{	741,143	1,102,166	2,889,804	
1927.....	10,961		{	(NA)	(NA)	{	669,097	968,181	2,353,197
1925.....	11,137			(NA)	(NA)	{	676,742	975,812	2,317,836
1923.....	11,195	{		(NA)	(NA)	{	699,132	979,660	2,237,348
1921.....	11,479			(NA)	(NA)	{	494,288	627,033	1,381,603
1919.....	15,585			867,255	1,214,552	{	728,303	941,340	2,182,610
1914.....	15,573		592,934	423,010	{	510,220	317,772	761,676	
1909.....	15,138		508,285	317,597	{	446,934	245,450	613,734	
1904.....	13,785	404,289	225,864	364,298	182,429	433,175			
1899.....	13,868	336,218	164,579	308,109	136,428	339,368			
AKRON STANDARD METROPOLITAN AREA									
1954 <sup>1</sup> .....	669	85,905	389,094	63,170	259,900	619,497			
1947.....	482	94,011	284,302	75,289	215,444	460,327			
1939.....	324	52,602	96,759	40,114	65,463	166,444			
1929.....	353	77,093	132,202	66,871	106,477	280,546			
1919.....	405	(NA)	(NA)	71,050	102,708	261,175			
CANTON STANDARD METROPOLITAN AREA									
1954 <sup>1</sup> .....	456	56,762	247,442	45,351	184,284	449,371			
1947.....	385	55,564	158,649	47,600	128,551	280,241			
1939.....	323	32,342	50,343	28,854	42,061	107,807			
1929.....	338	36,834	67,456	32,202	54,735	142,508			
1919.....	584	(NA)	(NA)	34,182	47,876	108,670			
CINCINNATI STANDARD METROPOLITAN AREA									
1954 <sup>1</sup> .....	1,814	151,317	673,358	111,515	438,570	1,318,668			
1947.....	1,700	134,549	379,993	107,364	272,127	775,391			
1939.....	1,521	83,466	119,166	72,401	90,159	268,017			
1929.....	2,189	108,088	167,392	90,468	121,721	359,625			
1919.....	2,721	(NA)	(NA)	97,166	98,908	284,555			
CLEVELAND STANDARD METROPOLITAN AREA									
1954 <sup>1</sup> .....	3,744	291,037	1,376,234	222,511	944,795	2,401,375			
1947.....	3,252	268,232	865,662	218,494	644,686	1,543,911			
1939.....	2,441	150,854	240,879	129,358	183,314	504,992			
1929.....	2,829	191,612	336,550	164,793	257,664	690,275			
1919.....	3,182	(NA)	(NA)	169,813	228,927	518,009			
COLUMBUS STANDARD METROPOLITAN AREA									
1954 <sup>1</sup> .....	792	72,936	314,521	51,934	204,464	581,383			
1947.....	680	54,925	153,551	42,405	105,436	277,964			
1939.....	500	29,380	39,631	25,309	29,658	90,049			
1929.....	624	32,603	50,730	27,562	36,911	111,403			
1919.....	774	(NA)	(NA)	31,573	37,447	82,882			

See footnotes at end of table.



## MANUFACTURES—AREA STATISTICS

Table 2.--GENERAL STATISTICS FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES:  
1954 AND 1947—Continued

Year	Establish- ments, number	All employees		Production workers		Value added by manufacture (\$1,000)	
		Number	Payroll (\$1,000)	Number	Wages (\$1,000)		
DAYTON STANDARD METROPOLITAN AREA							
	1954 <sup>1</sup> .....	770	97,117	463,019	78,375	350,009	747,419
	1947.....	638	95,347	308,299	79,433	240,266	496,380
	1939.....	481	50,532	84,491	40,200	60,874	164,963
	1929.....	555	51,874	87,605	43,778	66,085	216,284
	1919.....	734	(NA)	(NA)	34,331	42,916	103,170
	TOLEDO STANDARD METROPOLITAN AREA						
	1954 <sup>1</sup> .....	711	61,123	296,607	46,107	203,835	534,636
	1947.....	628	70,588	224,189	57,600	169,729	393,578
1939.....	473	37,958	61,161	30,542	43,505	111,138	
1929.....	605	58,330	97,339	51,646	75,941	206,805	
1919.....	714	(NA)	(NA)	44,713	56,910	125,667	
WHEELING-STEUBENVILLE STANDARD METROPOLITAN AREA							
1954 <sup>1</sup> .....	385	49,687	205,685	43,603	170,052	404,133	
1947.....	343	51,751	147,020	46,484	125,513	259,509	
1939.....	304	44,001	60,829	41,228	53,969	100,873	
1929.....	416	44,887	73,905	41,066	64,076	129,534	
1919.....	743	(NA)	(NA)	36,464	51,440	101,187	
YOUNGSTOWN STANDARD METROPOLITAN AREA							
1954 <sup>1</sup> .....	723	105,646	479,748	88,386	374,054	873,610	
1947.....	554	109,021	331,712	94,606	274,351	569,388	
1939.....	429	69,461	110,720	63,010	94,861	200,320	
1929.....	496	74,600	139,583	66,515	118,047	273,627	
1919.....	764	(NA)	(NA)	63,830	114,650	208,200	

NA Not available.

<sup>1</sup>The 1954 figures include data for establishments engaged in the processing and distribution of fluid milk, Industry Group 202, Dairy Products. These establishments were not included in the figures for the Annual Survey years 1949-1953 or earlier Census years. In addition, the 1954 Census and Annual Survey years include data for Logging Camps and Contractors, Industry 2411, which were not included within the scope of the 1947 Census. See footnotes to Table 4 for comparable 1954 and 1947 totals. There were also a number of changes in the definition of manufacturing industries during earlier Census years that affect the comparability of the historical series. Among the more important of these were: figures for 1935 and later years exclude data for "Railroad repair shops" and "Manufactured gas" which were included in 1899-1933 figures; the minimum size of establishment included for 1954 and 1947 was one employee, for 1939-1921 manufacturing establishments reporting value of shipments of \$5,000 or more were within scope whereas for 1919 and earlier years the cutoff was \$500. (This change in procedure has not appreciably affected the comparability of the historical data except for the figures on number of establishments.)

<sup>2</sup>The employment and payroll figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period.

Table 3.--GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
Ohio, total.....	7,946,627	14,550	1,267,542	5,655,721	986,282	1,947,963	4,018,755	10,165,111	760,932	1,194,263	16,357,957
STANDARD METROPOLITAN AREA											
Akron area.....	410,032	669	85,905	389,094	63,170	114,746	259,900	619,497	33,909	94,011	460,327
Canton area.....	283,194	456	56,762	247,442	45,351	86,705	184,284	449,371	19,083	55,564	280,241
Cincinnati area.....	904,402	1,814	151,317	673,358	111,515	227,922	438,570	1,318,668	73,023	134,549	775,391
Portion in Ohio.....	723,952	1,660	142,139	634,816	104,441	213,460	412,651	1,236,313	66,626	125,329	727,798
Portion in Kentucky.....	180,450	154	9,178	38,543	7,075	14,462	25,920	82,355	6,397	9,220	47,593
Cleveland area.....	1,465,511	3,744	291,037	1,376,234	222,511	442,641	944,795	2,401,375	217,825	268,232	1,543,911
Columbus area.....	503,410	792	72,936	314,521	51,934	105,055	204,464	581,383	34,731	54,925	277,964
Dayton area.....	457,333	770	97,117	463,019	78,375	157,717	350,009	747,419	48,741	95,347	496,380
Hamilton-Middletown area.....	147,203	182	31,764	152,989	25,604	52,818	115,403	310,319	20,399	27,047	137,406
Huntington-Ashland area.....	245,795	281	24,178	97,212	19,577	37,796	72,211	209,703	29,953	22,187	120,562
Portion in Ohio.....	49,115	44	4,561	18,609	3,833	7,572	14,904	51,710	11,037	4,180	30,046
Portion in West Virginia.....	146,731	185	14,624	55,076	11,602	22,112	38,882	109,666	5,645	12,986	59,187
Portion in Kentucky.....	49,949	52	4,993	23,527	4,142	8,112	18,425	48,327	13,271	5,021	31,329
Lima area.....	88,183	136	14,691	57,831	10,577	20,862	40,485	99,158	10,930	14,709	73,143
Lorain-Elyria area.....	148,162	235	30,096	136,363	24,893	48,766	105,224	282,297	15,387	28,980	131,638
Springfield area.....	111,661	201	16,823	70,435	12,462	24,989	49,432	136,505	3,129	19,446	113,247
Toledo area.....	395,551	711	61,123	296,607	46,107	89,475	203,835	534,636	30,020	70,588	393,578
Wheeling-Steubenville area.....	354,092	385	49,687	205,685	43,603	80,678	170,052	404,133	55,112	51,751	259,509
Portion in Ohio.....	184,235	169	15,934	65,279	14,160	26,181	55,554	120,501	12,498	14,783	72,689
Portion in West Virginia.....	169,857	216	33,754	140,406	29,442	54,497	114,498	283,631	42,613	36,968	186,820
Youngstown area.....	528,498	723	105,646	479,748	88,386	166,522	374,054	873,610	49,129	109,021	569,388
Portion in Ohio.....	416,544	578	86,255	391,134	73,128	138,500	309,312	685,996	42,122	88,035	445,861
Portion in Pennsylvania.....	111,954	145	19,391	88,613	15,257	28,022	64,742	187,613	7,006	20,986	123,527
COUNTIES											
Adams.....	20,499	20	293	726	256	511	546	1,401	99	294	919
Allen.....	88,183	136	14,691	57,831	10,577	20,862	40,485	99,158	10,930	14,709	73,143
Ashland.....	33,040	54	5,077	20,122	3,883	7,551	13,296	31,436	1,711	4,306	28,086
Ashtabula.....	78,695	166	8,037	33,676	6,360	12,584	24,822	61,162	14,114	7,096	38,775
Athens.....	45,839	41	2,003	8,905	1,115	2,133	3,900	12,118	648	831	4,504
Auglaize.....	30,637	59	4,220	16,969	3,422	6,777	12,438	30,612	1,157	3,969	16,729
Belmont.....	87,740	86	4,256	14,096	3,662	6,734	11,867	23,516	2,800	4,627	19,037
Brown.....	22,221	19	605	1,386	556	1,036	1,201	2,684	200	618	1,726
Butler.....	147,203	182	31,764	152,989	25,604	52,818	115,403	310,319	20,399	27,047	137,406
Carroll.....	19,039	28	1,939	7,203	1,661	3,184	5,713	10,555	485	1,179	5,293
Champaign.....	26,793	29	1,558	6,746	1,367	3,113	5,226	13,050	545	1,360	8,560
Clark.....	111,661	201	16,823	70,435	12,462	24,989	49,432	136,505	3,129	19,446	113,247
Clermont.....	42,182	29	630	1,634	544	1,063	1,327	2,479	60	848	2,561
Clinton.....	25,572	56	1,781	6,737	1,531	3,140	5,362	10,975	473	1,052	4,329
Columbiana.....	98,920	188	12,129	48,050	9,910	18,250	36,046	79,935	2,197	12,692	59,129
Coshocton.....	31,141	78	3,993	14,875	3,160	6,293	10,497	30,748	1,197	4,474	22,351
Crawford.....	38,738	91	6,487	26,634	4,914	9,553	17,681	42,636	4,638	5,946	33,018
Cuyahoga.....	1,389,532	3,583	279,139	1,320,450	213,096	423,567	904,886	2,296,567	209,230	259,516	1,486,070
Darke.....	41,799	65	2,004	5,978	1,692	3,400	4,638	18,429	1,056	1,308	5,595
Defiance.....	25,925	60	4,267	18,171	3,616	7,331	14,185	29,303	6,789	2,503	12,936
Delaware.....	30,278	35	1,617	6,453	1,356	2,826	5,117	17,456	485	1,102	7,708
Erie.....	52,565	129	9,085	38,898	7,362	15,210	28,895	72,044	7,166	8,814	43,834
Fairfield.....	52,130	78	7,106	24,596	5,720	10,843	18,194	42,884	1,894	5,914	24,487
Fayette.....	22,554	32	1,127	3,846	868	1,813	2,591	7,654	776	1,121	3,722
Franklin.....	503,410	792	72,936	314,521	51,934	105,055	204,464	581,383	34,731	54,925	277,964
Fulton.....	25,580	64	2,234	7,067	1,959	3,892	5,739	14,527	322	1,854	8,621
Gallia.....	24,910	14	194	703	114	262	338	1,023	47	170	525
Geauga.....	26,646	53	1,880	7,812	1,353	2,758	5,133	12,617	894	1,484	7,727
Greene.....	58,892	54	2,524	10,674	2,184	4,621	8,531	22,670	1,731	1,679	8,625
Guernsey.....	38,452	63	3,015	9,850	2,486	4,493	7,292	15,157	3,015	2,272	8,542
Hamilton.....	723,952	1,660	142,139	634,816	104,441	213,460	412,651	1,236,313	66,626	125,329	727,798
Hancock.....	44,280	82	4,744	18,561	3,622	7,406	13,087	32,198	4,156	4,585	21,495
Hardin.....	28,673	38	1,341	4,949	1,089	2,171	3,772	11,608	595	1,294	4,436
Harrison.....	19,054	30	1,306	3,997	1,182	2,202	3,425	5,402	46	1,024	3,465
Henry.....	22,423	57	1,050	3,352	854	1,651	2,431	8,171	1,842	748	2,927
Highland.....	28,188	33	1,661	4,555	1,482	2,757	3,638	8,071	304	1,706	6,100
Hocking.....	19,520	38	1,400	4,776	1,227	2,314	4,133	8,303	333	1,471	5,911
Holmes.....	18,760	56	761	2,880	672	1,392	2,095	5,584	217	433	1,709
Huron.....	39,353	85	3,185	11,781	2,525	5,123	8,253	25,912	1,391	2,729	14,129
Jackson.....	27,767	51	1,938	6,545	1,606	2,902	4,818	10,020	592	2,181	9,009

See footnotes at end of table.



## MANUFACTURES—AREA STATISTICS

Table 3.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
Jefferson.....	96,495	83	11,678	51,183	10,498	19,447	43,687	96,985	9,698	10,156	53,652
Knox.....	35,287	43	3,665	16,347	3,108	6,169	12,915	28,876	1,421	4,588	23,045
Lake.....	75,979	161	11,897	55,783	9,414	19,073	39,908	104,807	8,594	8,716	57,814
Lawrence.....	49,115	44	4,561	18,609	3,833	7,572	14,904	51,710	11,037	4,180	30,046
Licking.....	70,645	97	8,480	36,199	6,205	12,365	25,304	71,488	6,617	7,088	31,571
Logan.....	31,329	42	1,957	7,335	1,661	3,312	5,930	15,167	516	1,077	4,359
Lorain.....	148,162	235	30,096	136,363	24,893	48,766	105,224	282,297	15,387	28,980	131,638
Lucas.....	395,551	711	61,123	296,607	46,107	89,475	203,835	534,636	30,020	70,588	393,578
Madison.....	22,300	14	439	1,566	365	720	1,220	3,033	278	694	3,043
Mahoning.....	257,629	332	48,398	216,282	41,195	77,323	171,586	380,460	24,747	51,445	245,384
Marion.....	49,959	72	6,706	27,728	5,425	10,653	20,789	48,541	3,223	7,231	36,837
Medina.....	40,417	70	4,511	16,581	3,626	7,015	11,841	29,844	716	4,487	18,652
Meigs.....	23,227	20	535	1,476	471	949	1,256	2,427	87	361	1,160
Mercer.....	28,311	54	3,067	10,931	2,617	4,887	8,570	22,043	879	2,106	10,826
Miami.....	61,309	127	8,890	36,387	6,929	13,965	25,199	70,662	3,131	7,965	44,606
Monroe.....	15,362	14	78	141	63	109	112	245	8	45	(D)
Montgomery.....	398,441	716	94,593	452,345	76,191	153,096	341,478	724,749	47,010	93,668	487,755
Morgan.....	12,836	19	745	2,623	608	1,182	1,844	6,270	130	214	682
Morrow.....	17,168	18	1,103	5,037	808	1,906	3,431	9,520	203	665	(D)
Muskingum.....	74,535	104	9,905	36,756	8,135	15,994	27,784	78,765	2,578	9,491	44,714
Noble.....	11,750	11	486	1,649	423	833	1,369	2,568	124	169	581
Ottawa.....	29,469	67	2,762	11,413	2,303	5,018	8,992	19,702	1,389	2,552	15,508
Paulding.....	15,047	21	971	3,638	809	1,580	2,709	8,064	126	614	2,033
Perry.....	28,999	33	1,840	5,628	1,635	3,127	4,796	8,360	232	1,887	7,398
Pickaway.....	29,352	31	1,866	7,057	1,376	2,825	4,448	18,445	5,422	830	4,565
Pike.....	14,607	25	1,941	(D)	1,032	(D)	(D)	(D)	(D)	45	136
Portage.....	63,954	111	9,039	39,161	7,322	14,972	29,111	56,955	1,967	7,234	32,896
Preble.....	27,081	36	719	(D)	616	(D)	(D)	(D)	(D)	460	1,601
Putnam.....	25,248	35	1,973	7,233	1,741	4,103	6,283	22,037	524	540	2,210
Richland.....	91,305	163	19,541	87,891	15,327	29,726	62,662	161,570	10,992	18,663	118,465
Ross.....	54,424	43	4,103	17,717	3,364	7,803	13,783	31,919	3,302	3,411	16,376
Sandusky.....	46,114	107	7,775	31,819	6,279	12,331	23,125	62,191	6,056	6,544	35,549
Scioto.....	82,910	78	8,475	29,967	6,790	12,949	22,713	45,924	38,130	11,934	40,023
Seneca.....	52,978	96	7,625	32,539	6,254	12,431	24,438	71,584	4,085	8,727	49,819
Shelby.....	28,488	60	5,318	22,724	4,596	9,745	17,840	32,502	1,728	4,136	21,933
Stark.....	283,194	456	56,762	247,442	45,351	86,705	184,284	449,371	19,083	55,564	280,241
Summit.....	410,032	669	85,905	389,094	63,170	114,746	259,900	619,497	33,909	94,011	460,327
Trumbull.....	158,915	246	37,856	174,852	31,932	61,175	137,725	305,535	17,374	36,590	200,477
Tuscarawas.....	70,320	155	9,125	35,375	7,644	14,626	27,625	59,003	3,783	6,495	41,296
Union.....	20,687	25	974	3,484	805	1,653	2,818	6,486	590	673	4,244
Van Wert.....	26,971	39	2,326	8,626	1,830	3,679	6,465	15,537	408	2,205	9,236
Vinton.....	10,759	36	530	(D)	478	(D)	(D)	(D)	(D)	367	2,703
Warren.....	38,505	40	1,663	6,516	1,367	2,970	4,789	10,212	467	3,154	20,422
Washington.....	44,407	66	4,447	17,604	3,331	6,722	12,023	35,952	12,150	2,524	14,961
Wayne.....	58,716	111	7,820	32,140	6,215	12,986	22,951	64,070	4,474	5,825	32,856
Williams.....	26,202	71	2,988	11,423	2,413	4,854	8,411	20,951	974	2,491	10,929
Wood.....	59,605	93	6,256	33,829	5,364	11,872	28,624	67,593	17,396	5,547	43,581
Wyandot.....	19,785	35	1,001	3,767	856	1,879	3,103	6,063	289	670	3,064
CITIES WITH 10,000 INHAB- ITANTS OR MORE											
Akron.....	274,605	429	69,148	317,856	51,173	91,532	212,244	473,854	26,753	76,534	367,844
Alliance.....	26,161	67	5,569	23,206	4,271	7,968	16,720	46,914	1,781	5,345	28,818
Ashland.....	14,287	38	3,919	15,567	3,005	5,833	10,189	26,947	1,427	3,405	20,328
Ashtabula.....	23,696	51	3,460	15,334	2,628	5,244	10,737	24,533	1,581	3,572	22,834
Athens.....	11,660	17	1,656	7,987	830	1,590	3,167	10,795	416	(NA)	(NA)
Barberton.....	27,820	50	12,291	51,272	8,496	16,148	33,935	110,954	5,572	14,362	75,477
Bellaire.....	12,573	15	1,081	2,001	905	1,462	2,163	3,811	85	1,416	4,162
Bellefontaine.....	10,232	22	1,272	5,030	1,038	2,156	3,912	10,290	451	(NA)	(NA)
Berea.....	12,051	15	417	1,806	341	623	1,322	2,919	250	(NA)	(NA)
Bexley.....	12,378	...	...	...	...	...	...	...	...	(NA)	(NA)
Bowling Green.....	12,005	16	454	1,480	373	739	1,038	1,509	99	(NA)	(NA)
Bucyrus.....	10,327	32	2,164	8,530	1,844	3,744	6,725	18,711	740	(NA)	(NA)
Cambridge.....	14,739	35	2,396	7,569	2,016	3,583	5,788	11,132	490	948	4,073
Campbell.....	12,882	11	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Canton.....	116,912	202	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	158,213
Chillicothe.....	20,133	26	3,815	16,578	3,133	7,325	12,919	30,685	3,165	3,307	15,897
Cincinnati.....	503,998	1,295	88,603	379,332	67,307	136,092	250,291	682,599	28,997	96,237	488,595
Cleveland.....	914,808	3,005	204,773	960,591	155,347	307,935	646,955	1,655,871	77,675	211,477	1,218,971
Cleveland Heights.....	59,141	22	405	1,805	201	408	768	2,907	128	233	1,696
Columbus.....	375,901	666	58,373	251,250	40,433	81,855	158,137	464,620	25,099	41,415	222,227

See footnotes at end of table.



Table 3.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
Conneaut.....	10,230	29	1,419	5,240	1,145	2,259	3,897	10,105	522	(NA)	(NA)
Coshocton.....	11,675	47	2,850	10,361	2,306	4,627	7,617	23,360	775	2,810	15,645
Cuyahoga Falls.....	29,195	69	2,303	11,045	1,728	3,576	7,076	18,306	808	1,401	7,611
Dayton.....	243,872	558	88,106	423,124	71,441	143,346	322,377	673,894	45,107	75,843	416,008
Defiance.....	11,265	35	1,747	7,625	1,410	3,004	5,529	11,733	730	(NA)	(NA)
Delaware.....	11,804	21	1,294	(D)	1,073	(D)	(D)	(D)	(D)	(NA)	(NA)
East Cleveland.....	40,047	51	2,344	9,665	1,856	3,557	6,681	24,484	1,338	4,306	23,362
East Liverpool.....	24,217	34	1,933	6,284	1,598	2,701	4,666	8,634	183	2,683	11,126
Elyria.....	30,307	85	12,003	54,745	9,637	19,083	40,806	111,683	4,204	11,284	58,164
Euclid.....	41,396	85	23,872	118,210	18,186	36,450	83,112	238,831	9,857	18,331	112,457
Findlay.....	23,845	57	3,851	15,230	2,897	5,915	10,699	25,577	1,349	3,999	17,118
Fostoria.....	14,351	35	3,701	15,609	3,035	5,890	11,817	34,334	1,205	4,327	25,931
Fremont.....	16,537	60	3,293	12,480	2,658	5,140	8,819	19,629	589	3,697	16,339
Garfield Heights.....	21,662	33	814	3,564	688	1,488	2,637	6,757	542	840	3,954
Girard.....	10,113	22	2,212	9,185	1,982	3,860	7,829	17,311	348	(NA)	(NA)
Hamilton.....	57,951	98	14,025	61,365	10,945	21,757	43,526	107,818	5,383	14,131	65,223
Ironton.....	16,333	30	2,659	10,499	2,337	4,586	8,864	24,105	2,279	2,875	16,303
Kent.....	12,418	36	3,725	16,400	3,044	6,163	12,253	23,923	946	(NA)	(NA)
Lakewood.....	68,071	63	4,231	19,398	2,941	5,764	11,806	28,710	1,342	5,249	23,540
Lancaster.....	24,180	48	6,186	21,111	4,972	9,301	15,755	35,727	1,413	5,226	19,355
Lima.....	50,246	84	11,073	43,799	7,618	14,934	29,830	69,511	2,406	11,361	56,351
Lorain.....	51,202	65	14,587	65,488	12,335	23,627	51,912	138,489	10,494	16,256	65,087
Mansfield.....	43,564	104	16,226	75,268	12,915	25,065	54,422	141,134	9,594	14,292	94,238
Maple Heights.....	15,586	20	2,744	11,982	2,321	4,524	9,245	23,888	227	(NA)	(NA)
Marietta.....	16,006	33	2,072	8,068	1,553	3,217	5,492	19,649	5,441	1,507	11,331
Marion.....	33,817	57	5,597	23,283	4,474	8,771	17,277	40,776	2,987	6,932	35,810
Martins Ferry.....	13,220	23	1,960	8,081	1,685	3,260	6,586	12,192	2,389	2,365	11,082
Massillon.....	29,594	40	3,081	12,687	2,587	5,069	9,841	27,287	1,233	4,353	20,918
Middletown.....	33,695	42	12,037	59,776	9,882	20,287	46,170	127,953	7,975	10,746	65,439
Mount Vernon.....	12,185	16	1,503	6,283	1,293	2,485	4,693	10,461	251	1,936	9,805
Newark.....	34,275	60	5,638	23,382	3,938	7,774	15,661	45,209	3,447	6,679	(D)
New Philadelphia.....	12,948	22	1,392	5,880	996	2,168	4,023	12,991	874	1,056	4,840
Niles.....	16,773	28	3,235	13,753	2,786	5,038	11,121	24,538	574	3,443	19,363
Norwood.....	35,001	76	11,592	50,905	9,164	18,578	36,494	97,274	2,522	13,029	80,989
Painesville.....	14,432	35	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Parma.....	28,897	14	6,777	32,357	6,071	12,301	27,862	51,166	16,440	33	130
Piqua.....	17,447	52	3,909	14,403	3,246	6,472	10,376	24,091	1,116	3,645	16,327
Portsmouth.....	36,798	44	5,512	16,556	4,337	8,180	11,725	26,098	1,287	7,024	22,329
Rocky River.....	11,237	17	189	860	102	217	357	1,426	41	(NA)	(NA)
Salem.....	12,754	38	5,319	23,473	4,174	7,745	17,291	43,565	811	4,996	24,088
Sandusky.....	29,375	86	5,060	21,066	4,075	8,466	15,052	36,870	2,114	6,794	37,476
Shaker Heights.....	28,222	5	10	36	8	17	22	102	5	(D)	(D)
Sidney.....	11,491	38	4,963	21,455	4,301	9,141	16,967	30,470	1,671	(NA)	(NA)
South Euclid.....	15,432	16	255	849	200	334	552	1,133	70	(NA)	(NA)
Springfield.....	78,508	172	16,437	69,187	12,130	24,295	48,449	134,099	3,053	19,363	112,851
Steubenville.....	35,872	39	7,786	35,638	7,017	13,170	30,717	76,576	8,685	5,723	32,931
Struthers.....	11,941	12	1,514	5,799	1,440	2,616	5,377	15,264	8,247	2,611	(D)
Tiffin.....	18,952	48	3,693	16,143	2,999	6,185	11,880	35,424	2,556	4,128	23,598
Toledo.....	303,616	555	52,168	253,264	38,854	75,088	171,679	453,243	23,928	60,489	334,212
Troy.....	10,661	24	3,175	14,617	2,276	4,754	9,859	32,294	829	(NA)	(NA)
University Heights.....	11,566	...	...	...	...	...	...	...	...	(NA)	(NA)
Van Wert.....	10,364	23	2,189	8,273	1,721	3,473	6,199	14,909	312	(NA)	(NA)
Warren.....	49,856	55	11,251	50,636	9,055	17,842	37,244	89,297	5,989	11,279	60,934
Washington.....	10,560	24	711	2,291	540	1,102	1,428	3,814	294	(NA)	(NA)
Wooster.....	14,005	30	2,842	11,650	2,123	4,277	7,565	22,233	1,275	2,254	9,496
Xenia.....	12,877	21	766	2,356	661	1,249	1,897	4,175	501	782	3,668
Youngstown.....	168,330	202	29,880	135,939	24,802	45,325	104,607	232,831	12,339	33,064	150,388
Zanesville.....	40,517	59	6,282	23,397	4,962	9,688	16,773	44,350	1,703	5,906	30,805

D Withheld to avoid disclosing figures for individual companies. NA Separate figures are not available, but are included in appropriate totals.  
<sup>1</sup>The 1947 data are not strictly comparable with the figures shown for 1954 due to differences in coverage of loggers and fluid milk distributors. See discussion in Introduction and Footnotes to Table 4.

## MANUFACTURES—AREA STATISTICS

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954										1947	
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
	All industries, total <sup>1</sup> ...	14,550	5,479	1,267,542	5,655,721	986,282	1,947,963	4,018,755	10,165,111	( <sup>2</sup> )	760,932	31,194,263	36,357,957
20	Food and kindred products..	2,109	763	82,923	335,937	51,817	109,044	181,490	689,357	( <sup>2</sup> )	39,031	( <sup>4</sup> )	( <sup>4</sup> )
201	Meat products.....	334	109	14,257	60,069	10,556	22,566	40,259	124,000	( <sup>2</sup> )	3,357	10,500	53,768
2011	Meat packing plants.....	193	70	11,568	51,572	8,370	18,200	34,288	106,817	( <sup>2</sup> )	2,635	8,317	43,894
2013	Prepared meats.....	53	22	1,337	5,203	1,000	2,044	3,365	8,841	( <sup>2</sup> )	403	1,903	8,867
2015	Poultry dressing plants.....	88	17	1,352	3,293	1,186	2,302	2,605	8,341	42,628	318	280	1,007
202	Dairy products.....	576	225	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2021	Creamery butter.....	30	13	1,251	4,526	777	1,812	2,530	9,800	52,467	762	( <sup>4</sup> )	( <sup>4</sup> )
2022	Natural cheese.....	39	7	655	2,536	484	1,126	1,769	4,370	17,659	325	( <sup>4</sup> )	( <sup>4</sup> )
2023	Concentrated milk.....	16	12	1,001	4,067	810	1,972	3,147	12,826	46,861	408	( <sup>4</sup> )	( <sup>4</sup> )
2024	Ice cream and ices.....	84	29	1,858	7,003	1,117	2,166	3,408	16,214	36,655	1,339	( <sup>4</sup> )	( <sup>4</sup> )
2025	Special dairy products.....	9	2	242	780	190	403	570	2,208	6,276	70	( <sup>4</sup> )	( <sup>4</sup> )
2027	Fluid milk and other products..	347	160	14,419	63,243	6,317	14,155	23,228	106,453	301,106	6,699	( <sup>4</sup> )	( <sup>4</sup> )
203	Canned and frozen foods.....	142	49	3,983	11,472	3,435	6,810	8,243	25,285	( <sup>2</sup> )	2,274	(D)	(D)
2033	Canned fruits and vegetables...	99	36	2,490	6,882	2,151	4,247	4,871	15,935	45,451	1,575	2,620	9,937
2035	Pickles and sauces.....	34	11	1,309	4,082	1,117	2,247	2,943	8,185	23,927	620	1,445	5,214
204	Grain mill products.....	134	44	5,404	22,136	3,952	8,445	15,645	61,258	( <sup>2</sup> )	4,441	5,199	48,539
2041	Flour and meal.....	32	7	726	2,885	560	1,153	2,040	7,138	54,793	403	1,147	53,919
2042	Prepared animal feeds.....	97	34	3,313	13,307	2,305	5,018	8,721	31,242	180,624	1,947	3,115	23,880
205	Bakery products.....	337	150	20,461	82,267	11,736	24,524	40,069	141,790	( <sup>2</sup> )	6,928	20,493	98,185
2051	Bread and related products.....	321	140	17,333	71,687	9,088	19,169	31,675	110,342	208,433	6,136	17,465	78,745
2052	Biscuit and crackers.....	16	10	3,128	10,580	2,648	5,355	8,393	31,447	59,312	791	3,028	19,440
207	Candy and related products...	102	24	1,917	5,350	1,559	2,952	3,877	8,923	( <sup>2</sup> )	482	1,579	7,425
208	Beverages.....	234	89	10,385	45,471	5,822	11,734	22,678	117,219	( <sup>2</sup> )	7,450	11,553	89,162
2081	Bottled soft drinks.....	190	68	5,107	19,762	2,313	4,588	6,881	38,244	63,795	2,335	3,813	20,197
2082	Beer and ale.....	20	15	4,274	21,451	2,735	5,573	12,665	61,016	94,406	4,788	6,199	53,919
209	Miscellaneous foods.....	248	71	6,341	24,066	4,558	9,087	14,350	54,616	( <sup>2</sup> )	4,326	7,553	62,486
2095	Flavorings.....	29	6	442	1,629	261	427	632	2,961	7,092	159	635	(D)
2097	Manufactured ice.....	43	11	616	2,233	371	822	1,231	4,231	5,169	184	1,522	8,631
2098	Macaroni and spaghetti.....	19	2	159	434	115	220	279	1,060	3,218	62	176	728
2099	Food preparations, n.e.c.....	142	47	3,776	13,027	2,910	5,768	8,009	31,601	135,733	997	(D)	(D)
21	Tobacco manufactures.....	17	8	1,530	3,906	1,329	2,367	3,026	8,913	( <sup>2</sup> )	165	2,671	14,504
2141	Tobacco stemming and redrying	3	2	141	362	127	253	333	891	2,277	111	(D)	(D)
22	Textile mill products.....	98	58	11,631	42,454	10,111	19,833	32,044	80,667	( <sup>2</sup> )	2,850	10,868	58,183
221	Woolen and worsted manufac- ture.....	13	12	3,535	11,359	3,215	6,133	9,416	17,990	( <sup>2</sup> )	307	3,793	21,907
2213	Woolen and worsted fabrics.....	8	8	2,869	9,443	2,576	4,860	7,618	15,313	38,259	(D)	3,382	20,248
2241	Narrow fabric mills.....	4	4	248	842	211	436	529	1,645	2,839	39	198	(D)
225	Knitting mills.....	29	20	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2253	Knit outerwear mills.....	20	15	2,044	6,777	1,835	3,464	4,667	10,972	24,914	413	1,577	6,930
227	Carpets and rugs.....	6	3	231	1,061	185	388	727	2,511	( <sup>2</sup> )	101	(D)	(D)
229	Miscellaneous textile goods..	29	15	3,101	14,337	2,494	5,369	10,305	32,259	( <sup>2</sup> )	1,642	2,575	16,720
2293	Padding and upholstery filling.	8	2	685	2,909	600	1,222	2,467	6,687	14,306	529	384	(D)
2294	Processed textile waste.....	9	6	426	1,335	370	782	1,108	1,989	5,483	108	308	1,115
2295	Coated fabric, exc. rubberized.	5	3	1,595	8,797	1,168	2,630	5,647	21,513	52,242	989	1,280	(D)
23	Apparel and related prod- ucts.....	460	180	25,714	75,029	21,844	38,923	53,805	112,759	( <sup>2</sup> )	2,007	31,291	127,753
231	Men's and boys' suits and coats.....	44	34	7,792	24,317	6,828	11,555	18,751	32,294	( <sup>2</sup> )	592	10,584	47,618
2311	Men's and boys' suits and coats	38	32	7,731	24,169	6,776	11,475	18,641	32,080	70,318	592	10,417	46,975
232	Men's and boys' furnishings..	82	36	5,831	15,465	5,001	8,799	10,629	23,844	( <sup>2</sup> )	307	6,599	23,840
2321	Men's dress shirts & nightwear.	13	8	1,747	5,539	1,391	2,739	3,489	9,045	38,065	74	1,935	6,651
2323	Men's and boys' neckwear.....	10	3	464	1,245	395	607	749	1,925	4,288	9	471	2,370
2325	Men's and boys' cloth hats....	14	1	145	343	126	241	264	463	981	...	140	467
2327	Separate trousers.....	22	13	2,052	4,895	1,839	3,096	3,799	7,623	15,581	117	2,116	8,014
2329	Men's and boys' clothing, n.e.c	23	11	1,422	3,442	1,249	2,114	2,327	4,787	15,502	106	1,937	6,338
233	Women's and misses' outerwear	61	38	5,377	16,023	4,417	8,089	10,892	25,412	( <sup>2</sup> )	201	7,431	31,709
2333	Dresses, unit price.....	13	10	1,397	4,828	1,206	2,323	3,371	8,080	18,099	84	1,178	6,043
2334	Dresses, dozen price.....	19	13	2,189	5,876	1,715	3,068	3,739	8,833	16,344	69	3,616	12,523
2337	Women's suits, coats and skirts	24	11	1,238	3,815	1,056	1,790	2,911	5,963	12,471	27	2,348	12,476
234	Women's undergarments.....	7	4	249	479	233	373	432	739	( <sup>2</sup> )	8	182	593
2351	Millinery.....	5	1	133	329	106	195	199	366	662	(D)	175	686
238	Miscellaneous apparel.....	33	17	1,609	3,817	1,445	2,675	3,006	6,230	( <sup>2</sup> )	109	2,293	6,756
2382	Fabric work gloves.....	12	10	697	1,304	656	1,142	1,170	2,268	5,019	40	1,272	3,443
2385	Waterproof outer garments.....	7	4	320	896	294	558	763	1,516	3,018	6	372	1,219
2389	Apparel, n.e.c.....	8	2	400	1,042	318	616	661	1,690	2,453	(D)	235	(D)
239	Fabricated textiles, n.e.c....	219	47	4,545	14,160	3,661	6,935	9,595	22,721	( <sup>2</sup> )	777	3,802	15,803
2391	Curtains and draperies.....	18	5	271	778	210	393	438	1,405	3,242	18	81	(D)
2392	Housefurnishings, n.e.c.....	36	8	453	1,272	386	695	860	2,444	5,927	56	550	3,164
2393	Textile bags.....	13	4	209	617	167	322	404	787	4,249	(D)	463	2,101
2394	Canvas products.....	64	13	1,426	4,772	1,021	1,964	2,697	6,679	14,119	70	1,053	3,326
2396	Trimings and ert goods.....	11	6	861	2,820	758	1,644	2,514	4,984	13,124	(D)	(D)	(D)
2399	Textile products, n.e.c.....	57	9	1,139	3,534	952	1,646	2,353	5,803	22,882	158	1,295	5,683

See footnotes at end of table.



Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry	1954										1947	
		Establish- ments, number		All employees		Production workers			Value added by manufacture	Value of shipments	Capital expendi- tures, new	All employees, number	Value added by manufacture
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
24	Lumber and wood products...	847	116	9,999	33,142	8,427	16,272	23,882	53,987	(2)	2,296	(4)	(4)
2411	Logging camps and contractors	49	...	114	187	100	171	163	295	573	60	(4)	(4)
242	Lumber and basic products....	497	16	2,684	6,909	2,367	4,373	5,516	11,256	(2)	729	2,242	7,986
2421	Sawmills and planing mills.....	489	14	2,490	6,149	2,206	4,085	5,033	9,967	17,986	660	2,012	6,977
243	Millwork and related products	111	39	3,137	12,954	2,414	4,684	8,063	22,257	(2)	731	3,140	15,028
2431	Millwork plants.....	87	27	1,990	8,195	1,533	2,987	5,083	10,581	21,961	392	2,443	11,977
244	Wooden containers.....	89	30	2,222	6,977	1,955	3,781	5,485	10,502	(2)	213	2,911	11,301
2441	Fruit and vegetable baskets....	15	9	384	764	353	639	654	1,201	1,579	17	498	(D)
2444	Wooden boxes.....	53	17	1,305	4,469	1,104	2,201	3,276	6,967	14,077	137	1,735	6,878
2445	Cooperage.....	14	3	443	1,562	417	802	1,399	1,884	5,021	41	526	2,927
249	Miscellaneous wood products..	101	31	1,839	6,113	1,588	3,261	4,654	9,676	(2)	560	2,272	9,413
2491	Wood preserving.....	8	6	459	1,588	399	783	1,299	3,002	7,264	208	688	3,252
2499	Wood products, n.e.c.....	84	23	1,232	4,001	1,062	2,209	2,979	5,933	11,799	330	1,298	5,010
25	Furniture and fixtures.....	394	133	21,353	88,472	17,444	33,672	65,624	152,027	(2)	6,930	24,339	116,840
251	Household furniture.....	201	72	8,760	33,107	7,164	13,826	24,624	56,816	(2)	(D)	10,429	48,884
2511	Wood furniture, not upholstered	56	16	1,863	5,628	1,657	3,172	4,690	9,409	16,925	346	2,506	9,439
2512	Upholstered household furniture	75	28	2,740	10,790	2,267	4,182	7,772	16,800	32,221	(D)	2,860	13,724
2514	Metal household furniture.....	29	12	2,335	9,836	1,958	3,714	7,013	17,777	32,911	1,022	3,597	17,622
2515	Mattresses and bedsprings.....	41	16	1,820	6,852	1,281	2,757	5,148	12,828	28,669	702	1,242	(D)
252	Office furniture.....	15	9	4,790	21,041	4,004	7,694	16,533	36,294	(2)	(D)	(D)	(D)
2521	Wood office furniture.....	4	2	299	1,178	241	457	803	1,589	2,763	36	315	(D)
2522	Metal office furniture.....	11	7	4,491	19,863	3,762	7,237	15,729	34,705	52,348	(D)	5,951	29,150
253	Public and professional fur- niture.....	31	14	920	3,575	732	1,495	2,651	5,207	(2)	265	593	2,275
2531	Public-building furniture.....	24	9	670	2,683	540	1,113	2,043	3,724	6,530	81	357	1,434
2532	Professional furniture.....	7	5	249	892	192	382	608	1,483	2,842	183	236	841
2541	Partitions and fixtures.....	88	29	5,657	25,945	4,673	8,967	18,795	45,943	78,464	2,098	4,750	24,103
256	Screens, shades and blinds...	51	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2561	Window and door screens.....	8	2	221	1,051	183	346	859	2,297	5,294	11	261	2,708
2563	Venetian blinds.....	34	5	341	1,036	245	463	625	1,574	3,611	227	427	(D)
26	Pulp, paper and products...	273	196	35,572	158,116	28,749	61,572	114,302	297,067	(2)	21,796	31,674	199,107
261	Pulp, paper and board.....	52	51	11,999	57,479	10,040	23,041	44,895	124,973	(2)	9,098	12,270	87,079
2611	Pulp mills.....	4	3	249	1,027	224	498	875	3,859	7,658	(D)	368	2,529
2612	Paper and paperboard mills.....	43	43	11,244	54,157	9,386	21,546	42,220	116,040	240,992	8,825	11,902	84,550
2613	Building paper and board mills.	5	5	505	2,294	429	996	1,799	5,073	11,853	(D)		
2641	Paper coating and glazing....	23	14	3,243	15,198	2,621	5,616	11,404	31,081	77,565	(D)	1,412	14,394
2651	Envelopes.....	9	9	1,795	7,016	1,550	3,108	5,302	11,294	23,254	354	1,691	7,211
2661	Paper bags.....	25	12	2,598	11,028	1,912	3,933	6,788	17,043	48,961	1,581	2,320	11,774
267	Paper board containers.....	110	77	11,913	51,955	9,533	19,832	36,080	82,727	(2)	7,005	10,501	62,252
2671	Paperboard boxes.....	96	69	10,599	46,640	8,404	17,468	31,772	74,099	194,088	6,762	9,064	56,844
2674	Fiber cans, tubes, drums, etc..	14	8	1,314	5,315	1,129	2,364	4,308	8,628	18,062	243	1,437	5,408
269	Pulp, paper and products, n.e.c.....	54	33	4,021	15,438	3,091	6,039	9,831	29,947	(2)	(D)	3,480	16,397
2691	Die-cut paper and board.....	16	6	402	1,460	323	637	993	2,880	6,104	31	940	3,831
2693	Wallpaper.....	4	3	167	654	135	258	454	918	1,749	(D)	170	(D)
2699	Paper and board products, nec..	34	24	3,452	13,324	2,633	5,144	8,383	26,149	48,765	1,624	2,363	11,455
27	Printing and publishing....	1,732	399	59,267	269,552	38,409	74,564	161,341	465,575	(2)	22,532	49,943	322,283
2711	Newspapers.....	381	98	17,415	85,208	9,320	17,456	43,663	145,129	208,629	6,705	13,112	87,177
2721	Periodicals.....	84	24	5,447	23,338	2,768	5,111	11,464	65,609	95,816	3,411	8,629	86,413
273	Books.....	58	17	2,133	8,683	1,196	2,359	4,593	16,405	(2)	544	2,126	9,691
2731	Books; publishing and printing.	32	10	1,437	5,766	591	1,168	2,212	11,702	18,790	295	1,429	6,677
2732	Book printing.....	26	7	696	2,917	605	1,191	2,381	4,702	7,396	249	697	3,014
2741	Miscellaneous publishing.....	39	9	873	2,925	259	406	908	5,575	8,150	(D)	654	2,903
2751	Commercial printing.....	703	108	18,488	82,684	13,977	27,609	57,204	131,676	209,459	7,560	13,520	74,334
2761	Lithographing.....	207	63	6,481	31,307	5,029	9,883	21,341	46,262	74,001	2,463	4,317	22,950
2771	Greeting cards.....	15	8	3,749	12,923	2,511	4,916	7,073	23,324	33,350	(D)	3,187	15,687
278	Bookbinding and related in- dustries.....	68	19	1,784	6,569	1,205	2,389	3,911	9,572	(2)	359	1,816	7,538
2781	Bookbinding.....	37	8	504	1,548	446	828	1,255	2,413	2,876	63	552	2,085
2782	Blankbooks and paper ruling....	18	7	1,049	4,134	581	1,196	2,034	5,918	9,038	258	1,046	4,712
2783	Loose-leaf binders and devices.	9	4	208	802	159	328	561	1,089	2,257	37	(D)	(D)
279	Printing trade services.....	177	53	2,893	15,911	2,142	4,431	11,181	22,019	(2)	606	2,582	15,590
2791	Typesetting.....	67	14	896	4,892	688	1,396	3,502	7,008	8,252	217	651	3,703
2792	Engraving and plate printing.	24	4	270	950	217	338	619	1,359	1,793	16	213	709
2793	Photoengraving.....	66	24	1,153	6,917	815	1,908	4,813	9,149	10,463	250	1,002	7,028
2794	Electrotyping & stereotyping.	20	11	566	3,145	413	781	2,238	4,494	5,492	114	716	4,150

See footnotes at end of table.



## MANUFACTURES—AREA STATISTICS

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establish- ments, number		All employees		Production workers			Value added by manufacture	Value of shipments	Capital expendi- tures, new	All employees, number	Value added by manufacture
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
28	Chemicals and products.....	683	261	42,826	200,747	28,262	57,303	116,809	566,366	( <sup>2</sup> )	52,465	37,231	347,226
281	Inorganic chemicals.....	39	23	11,570	55,516	8,166	17,080	37,734	134,323	( <sup>2</sup> )	15,461	7,820	58,976
2819	Inorganic chemicals, n.e.c.....	33	17	7,117	35,286	4,781	10,009	22,439	88,523	143,748	9,210	3,398	(D)
282	Organic chemicals.....	61	41	7,924	36,124	6,168	12,186	25,786	103,331	( <sup>2</sup> )	21,124	5,338	57,767
2822	Intermediates & organic colors.	9	8	1,779	7,972	1,483	2,929	6,132	20,154	45,922	6,188	(NA)	(NA)
2823	Plastic materials.....	19	10	1,656	8,478	1,108	2,235	5,256	23,695	52,363	11,847	(D)	(D)
2826	Explosives.....	6	3	261	1,057	248	545	986	2,146	5,416	56	283	(D)
2829	Organic chemicals, n.e.c.....	15	10	1,081	5,393	766	1,601	3,475	17,565	44,544	1,433	(NA)	(NA)
283	Drugs and medicines.....	72	18	2,257	9,911	1,057	2,116	3,167	20,724	( <sup>2</sup> )	651	2,331	15,384
2834	Pharmaceutical preparations....	65	17	2,201	9,626	1,028	2,055	3,065	20,256	33,309	634	2,204	14,412
284	Soap and related products....	97	21	3,604	19,078	2,165	4,346	9,485	82,350	( <sup>2</sup> )	1,455	3,927	67,526
2841	Soap and glycerin.....	18	8	2,533	14,527	1,609	3,236	7,650	67,288	129,796	1,123	3,047	58,671
285	Paints and allied products...	127	53	6,846	30,855	4,046	7,811	14,907	77,649	( <sup>2</sup> )	2,285	7,276	60,802
287	Fertilizers.....	40	27	2,062	8,222	1,555	3,393	5,509	19,903	( <sup>2</sup> )	2,612	2,132	14,045
2871	Fertilizers.....	20	18	1,670	6,595	1,278	2,802	4,622	15,885	51,168	1,628	1,673	11,595
2872	Fertilizers, mixing only.....	20	9	392	1,627	277	591	886	4,018	14,305	983	459	2,450
288	Vegetables.....	37	18	2,118	9,676	1,500	3,213	6,471	28,213	( <sup>2</sup> )	3,038	2,848	29,121
2883	Soybean oil mills.....	10	9	808	3,263	622	1,293	2,363	13,283	87,505	769	769	9,715
2886	Grease and tallow.....	23	6	710	3,040	475	1,074	1,941	6,123	15,580	(D)	1,211	9,619
289	Chemical products, n.e.c.....	205	60	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2891	Printing ink.....	22	8	594	2,929	387	777	1,559	6,690	13,844	114	498	3,365
2894	Glue and gelatin.....	13	5	225	915	151	159	255	1,726	3,629	18	(D)	(D)
2896	Compressed and liquefied gases.	29	15	748	3,649	379	836	1,638	8,990	11,915	1,240	839	5,814
2899	Chemical products, n.e.c.....	113	23	2,765	14,124	1,419	2,826	5,394	30,483	59,131	2,930	1,732	20,009
29	Petroleum and coal products	114	49	12,428	62,520	9,987	20,014	47,024	159,894	( <sup>2</sup> )	49,488	10,959	95,811
2911	Petroleum refining.....	14	12	4,939	27,293	3,835	7,578	20,114	81,192	555,191	30,590	3,610	50,487
293	Coke and byproducts.....	16	16	4,429	20,533	3,964	7,619	17,388	44,773	165,502	17,495	5,388	26,356
2932	Byproduct coke ovens.....	16	16	4,429	20,533	3,964	7,619	17,388	44,773	165,502	17,495	5,388	26,356
295	Paving and roofing materials.	53	9	2,125	9,679	1,649	3,771	7,168	24,813	( <sup>2</sup> )	1,013	1,045	9,211
2951	Paving mixtures and blocks....	41	3	329	1,541	236	481	927	4,478	12,355	596	286	2,399
2952	Roofing felts and coatings....	12	6	1,795	8,138	1,413	3,289	6,240	20,334	37,330	417	759	6,812
299	Petroleum and coal products, n.e.c.....	31	12	934	5,014	537	1,046	2,354	9,116	( <sup>2</sup> )	389	916	9,757
2992	Lubricants, n.e.c.....	28	11	878	4,611	502	962	2,159	8,373	21,767	363	876	9,579
30	Rubber products.....	150	121	71,092	317,909	54,956	97,549	222,425	474,706	( <sup>2</sup> )	33,331	82,816	378,587
3011	Tires and inner tubes.....	12	12	39,203	180,185	29,769	49,986	124,600	249,197	542,608	18,425	49,709	233,364
3099	Rubber industries, n.e.c.....	169	102	30,432	131,739	23,952	45,352	93,068	214,315	382,089	14,280	(D)	(D)
31	Leather and leather goods..	98	43	13,004	38,801	11,256	20,660	30,938	60,816	( <sup>2</sup> )	678	17,847	67,257
3131	Footwear cut stock.....	8	2	283	828	258	517	691	1,133	1,997	(D)	587	(D)
314	Footwear, except rubber.....	28	24	10,200	28,392	8,837	15,942	22,761	43,543	( <sup>2</sup> )	398	13,471	40,511
3161	Luggage.....	14	4	241	785	206	393	555	1,172	2,228	9	802	4,743
317	Purses and small leather goods.....	8	1	117	393	87	153	207	503	( <sup>2</sup> )	(D)	280	(D)
319	Miscellaneous leather goods..	13	2	181	422	153	275	318	564	( <sup>2</sup> )	12	286	(D)
3199	Leather goods, n.e.c.....	9	2	147	316	129	230	249	451	773	12	196	549
32	Stone, clay, and glass products.....	887	360	64,719	261,307	55,136	108,547	209,676	480,367	( <sup>2</sup> )	39,650	60,008	295,176
322	Pressed and blown glassware..	31	26	12,663	45,862	10,892	20,279	38,214	86,848	( <sup>2</sup> )	(D)	12,610	55,778
3241	Cement, hydraulic.....	10	10	2,173	10,055	1,901	4,198	8,412	24,259	39,696	3,901	1,842	11,582
3251	Brick and hollow ile.....	57	49	4,312	18,487	3,915	8,419	16,005	29,951	41,069	2,084	3,407	16,150
3254	Sewer pipe.....	22	20	3,604	13,320	3,279	6,022	11,660	17,762	24,292	788	3,556	14,784
3255	Clay refractories.....	41	34	2,592	9,410	2,278	4,025	7,651	14,063	20,611	813	2,723	12,427
326	Pottery and related products.	108	55	11,640	38,377	10,353	18,328	31,221	54,288	( <sup>2</sup> )	3,355	13,014	51,237
3261	Vitreous plumbing fixtures....	4	4	1,128	4,990	975	1,920	4,093	9,942	16,633	164	967	5,646
3263	Earthenware, food utensils....	10	10	4,225	12,855	3,845	6,401	10,958	16,155	22,375	30	4,468	15,248
3264	Porcelain electrical supplies..	8	6	1,345	5,728	1,111	2,144	4,337	10,246	14,795	2,906	1,905	10,832
3269	Pottery products, n.e.c.....	72	29	2,626	7,939	2,258	4,337	5,942	10,077	13,150	214	3,577	11,240
327	Concrete and plaster products	368	74	10,219	43,984	7,598	16,278	30,690	80,796	( <sup>2</sup> )	6,567	7,725	37,647
3271	Concrete products.....	340	51	4,157	17,017	3,155	6,838	11,299	28,747	53,715	2,723	2,760	13,635
3275	Mineral wool.....	6	4	3,389	15,004	2,193	4,482	9,836	28,201	49,952	2,839	2,683	(D)
3281	Cut-stone and stone products.	29	5	566	2,077	480	994	1,612	3,736	6,173	87	201	934
329	Nonmetallic mineral products, n.e.c.....	116	47	4,015	15,828	3,202	6,154	10,577	31,484	( <sup>2</sup> )	1,087	(D)	(D)
3291	Abrasive products.....	35	15	1,484	5,920	1,065	1,919	3,259	9,070	17,783	300	1,231	6,806
3293	Gaskets & asbestos insulations.	20	9	446	1,644	376	702	1,026	2,703	4,749	118	287	2,222
3295	Minerals: ground or treated...	28	8	591	2,602	532	1,220	2,267	6,981	10,190	446	(D)	(D)
3297	Nonclay refractories.....	8	6	677	2,526	589	1,060	2,046	5,742	8,834	109	(D)	(D)
3298	Statuary and art goods.....	13	3	198	637	171	326	454	1,013	1,325	8	118	399

See footnotes at end of table.

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954										1947	
		Establishments, number		All employees		Production workers			Value added by manufacture	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
33	Primary metal industries...	650	407	171,159	789,935	148,060	280,587	638,491	1,423,869	( <sup>2</sup> )	153,940	177,068	852,157
331	Blast furnaces and steel mills.....	63	62	95,772	444,426	84,528	156,845	369,255	871,718	( <sup>2</sup> )	118,176	104,458	499,174
332	Iron and steel foundries.....	181	145	31,081	133,583	26,868	50,471	105,562	205,022	( <sup>2</sup> )	16,019	36,601	164,704
3321	Gray-iron foundries.....	143	108	20,348	87,668	17,767	33,680	70,627	141,118	232,051	12,480	21,131	97,689
3322	Malleable-iron foundries.....	13	13	4,084	16,440	3,611	6,640	13,760	22,115	33,957	1,518	5,931	25,423
3323	Steel foundries.....	25	24	6,648	29,474	5,488	10,151	21,174	41,788	60,061	2,020	9,539	41,592
3341	Secondary nonferrous metals..	33	17	1,680	8,307	1,321	2,787	5,691	19,970	76,949	832	1,527	(D)
335	Nonferrous rolling and drawing.....	26	22	5,706	26,940	4,699	9,345	20,894	47,469	( <sup>2</sup> )	3,766	3,084	10,773
3351	Copper rolling and drawing....	4	4	2,742	13,905	2,264	4,545	11,162	23,618	70,443	1,542	2,507	(D)
3352	Aluminum rolling and drawing..	16	12	2,709	11,999	2,215	4,365	8,996	21,236	73,537	2,158	(D)	(D)
3359	Rolling and drawing, n.e.c.....	6	6	255	1,036	220	435	736	2,615	8,243	65	107	(D)
3361	Nonferrous foundries.....	214	81	14,006	68,445	11,755	23,994	54,086	96,687	176,746	4,500	14,471	65,295
339	Primary metal industries, n.e.c.....	133	80	22,912	108,232	18,888	37,143	83,001	183,001	( <sup>2</sup> )	10,644	16,747	101,442
3391	Iron and steel forgings.....	38	29	7,414	37,991	6,300	12,350	30,207	54,798	111,601	1,667	5,441	29,471
3392	Wire drawing.....	12	10	7,271	30,916	6,055	11,879	24,364	57,373	121,809	5,216	3,967	25,698
3393	Welded and heavy-riveted pipe..	11	11	3,545	17,031	2,897	5,618	12,719	32,728	90,552	1,165	2,356	16,915
3399	Primary metal industries, nec..	72	30	4,681	22,294	3,634	7,295	15,710	38,100	109,267	2,595	4,983	29,358
34	Fabricated metal products..	1,828	752	123,084	548,202	98,185	195,347	395,326	942,852	( <sup>2</sup> )	41,140	123,043	640,173
3411	Tin cans and other tinware...	15	15	2,155	8,782	1,891	3,886	7,185	15,607	43,172	694	2,108	7,450
342	Cutlery, tools, and hardware..	158	75	14,216	60,681	11,612	22,672	46,520	105,825	( <sup>2</sup> )	6,552	12,393	58,769
3421	Cutlery.....	15	6	634	2,174	522	1,014	1,629	3,907	5,488	236	1,052	5,028
3423	Hand tools, n.e.c.....	57	28	3,244	14,056	2,604	5,115	10,184	24,867	41,057	861	3,819	21,583
3425	Hand saws and saw blades.....	12	7	412	1,381	328	584	1,019	2,400	3,667	27	324	(D)
3429	Hardware, n.e.c.....	52	29	8,776	38,502	7,180	14,047	29,983	68,164	125,301	5,292	5,168	22,400
343	Heating and plumbing equipment.....	116	64	16,353	74,379	12,530	24,577	50,059	141,274	( <sup>2</sup> )	4,519	21,606	117,009
3431	Plumbing fixtures and fittings..	42	17	5,627	24,709	4,651	8,777	18,509	44,700	81,811	1,722	4,339	23,294
3439	Heating & cooking equip., nec..	74	47	10,725	49,670	7,879	15,800	31,549	96,573	187,377	2,797	17,267	93,715
344	Structural metal products....	505	207	29,223	132,326	21,788	44,400	89,957	246,545	( <sup>2</sup> )	9,598	24,164	140,840
3441	Structural and ornamental work..	214	76	9,533	44,031	7,234	15,164	29,235	74,639	146,342	3,608	5,728	33,170
3442	Metal doors, sash and trim....	72	28	5,697	25,267	4,384	8,540	18,507	53,530	101,837	984	4,343	29,190
3443	Boiler shop products.....	70	43	8,002	34,824	5,532	11,128	22,484	69,195	114,352	2,348	9,321	51,445
3444	Sheet-metal work.....	149	60	5,989	28,203	4,637	9,566	19,730	49,180	102,494	2,656	4,772	27,035
346	Metal stamping and coating...	515	183	26,862	114,809	22,677	44,718	87,625	179,715	( <sup>2</sup> )	7,486	27,265	131,158
3461	Vitreous-enamel products.....	7	6	2,130	8,016	1,652	2,865	5,903	11,068	20,768	193	4,609	14,842
3463	Metal stamping.....	244	116	19,365	86,610	16,257	32,132	65,540	141,023	264,249	5,197	18,253	96,608
3465	Enameling and lacquering.....	31	11	694	2,056	617	968	1,542	2,932	4,208	158	440	(D)
3466	Galvanizing.....	8	4	205	921	158	309	609	1,725	3,238	108	171	1,100
3467	Engraving on metal.....	13	3	127	545	111	218	397	966	1,295	178	74	(D)
3468	Plating and polishing.....	212	43	4,338	16,660	3,880	8,224	13,631	21,999	36,868	1,651	3,718	16,583
3471	Lighting fixtures.....	61	29	6,150	29,381	4,878	10,061	21,731	43,035	78,461	2,375	7,655	35,072
348	Fabricated wire products.....	99	45	4,968	24,190	4,059	8,622	17,842	36,605	( <sup>2</sup> )	1,706	3,139	15,950
3481	Nails and spikes.....	4	4	228	1,220	194	352	635	2,249	4,128	185	230	1,510
3489	Wirework, n.e.c.....	95	41	4,740	22,970	3,865	8,270	17,207	34,355	57,614	1,521	2,909	14,440
349	Metal products, n.e.c.....	359	134	23,154	103,651	18,746	36,408	74,404	174,243	( <sup>2</sup> )	8,207	24,713	133,925
3491	Metal barrels, drums, and pails	16	11	2,314	10,471	2,003	3,904	8,444	16,104	40,639	1,089	4,130	21,535
3492	Safes and vaults.....	9	6	3,024	13,360	2,255	4,373	9,187	26,288	36,217	(D)	3,203	17,151
3494	Bolts, nuts, washers, & rivets..	67	41	10,046	46,170	8,029	15,557	32,222	76,303	129,089	4,294	10,318	62,927
3495	Screw machine products.....	191	60	6,173	27,167	5,225	10,308	20,187	45,599	73,782	1,622	5,888	26,004
3499	Fabricated metal prod., n.e.c..	67	15	1,176	4,486	904	1,602	2,950	7,320	15,583	461	753	(D)
35	Machinery, except electrical.....	2,471	867	214,221	1,031,805	166,341	337,347	735,324	1,709,644	( <sup>2</sup> )	123,562	226,877	1,247,946
351	Engines and turbines.....	11	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3519	Internal combustion engines....	9	5	5,320	24,787	3,858	7,541	16,012	33,129	84,389	669	6,832	36,952
352	Tractors and farm machinery..	81	39	5,595	23,020	4,348	8,242	15,915	36,272	( <sup>2</sup> )	1,328	6,772	33,354
3521	Tractors.....	14	9	1,264	5,853	909	1,667	3,928	7,010	22,328	338	1,716	(D)
3522	Farm machinery, (exc. tractors)	67	30	4,331	17,167	3,439	6,575	11,987	29,261	58,265	990	5,056	(D)
353	Construction and mining machinery.....	90	63	17,617	81,639	12,439	24,228	50,566	130,685	( <sup>2</sup> )	4,264	19,407	112,810
3531	Construction and mining mach..	80	56	15,816	72,998	11,061	21,431	44,356	118,528	239,287	3,968	17,183	103,905
3532	Oil-field machinery and tools..	10	7	1,801	8,641	1,378	2,797	6,210	12,157	22,518	295	2,224	8,905
354	Metal working machinery.....	743	267	51,275	277,305	40,407	87,594	202,083	471,481	( <sup>2</sup> )	48,892	44,490	241,698
3541	Machine tools.....	94	52	19,319	107,617	15,018	32,988	76,157	192,161	299,268	9,673	17,275	90,901
3542	Metal working machinery.....	74	48	16,188	82,003	12,487	26,441	60,183	143,897	245,093	6,940	14,293	77,739
3544	Special dies and tools.....	478	135	9,277	54,862	7,806	17,625	42,275	80,453	109,616	29,235	12,922	73,058
3545	Metal working mach. attachments	97	32	6,490	32,823	5,095	10,539	23,467	54,968	72,983	3,042		

See footnotes at end of table.



## MANUFACTURES—AREA STATISTICS

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
355	Machinery, except electrical—Continued												
	Special-industry machinery, n.e.c.....	205	85	14,668	70,977	10,604	21,640	45,012	125,473	(2)	4,557	20,192	125,546
3551	Food-products machinery.....	41	18	3,459	15,771	2,356	4,725	9,643	28,660	44,541	668	2,863	18,932
3552	Textile machinery.....	9	1	114	458	92	192	362	647	1,174	(D)	736	4,031
3553	Woodworking machinery.....	8	3	449	2,107	314	602	1,308	6,621	10,115	(D)	1,356	9,215
3554	Paper-industries machinery.....	10	4	1,280	6,033	932	1,786	3,784	11,858	19,970	252	1,715	8,128
3555	Printing-trades machinery.....	26	11	2,549	13,037	1,807	3,637	7,872	21,354	31,475	1,287	2,242	16,984
3559	Special-industry mech., n.e.c.	111	48	6,815	33,570	5,101	10,697	22,041	56,332	91,117	2,226	11,280	68,255
356	General industrial machinery.	262	139	29,245	136,868	20,716	41,543	86,098	246,802	(2)	10,201	33,151	189,235
3561	Pumps and compressors.....	38	20	6,559	29,577	4,509	8,911	18,575	51,076	90,104	1,330	7,214	37,895
3562	Elevators and escalators.....	12	5	855	4,009	470	887	1,855	6,448	11,465	72	575	(D)
3563	Conveyors.....	47	28	5,272	25,048	3,864	7,853	16,418	41,926	75,943	1,909	7,294	41,889
3564	Blowers and fans.....	20	16	3,136	13,393	2,536	5,074	9,789	30,809	52,199	1,357	1,468	11,849
3565	Industrial trucks and tractors.	29	16	2,601	12,532	1,732	3,492	6,915	19,787	42,175	2,291	2,688	17,739
3566	Power-transmission equipment...	51	29	6,741	32,554	5,179	10,396	22,597	54,110	86,403	2,444	8,813	48,405
3567	Industrial furnaces and ovens...	24	8	1,541	8,096	714	1,423	2,935	20,478	44,252	203	1,537	10,040
3568	Mechanical stokers.....	5	3	149	636	112	170	299	1,034	1,883	17	835	(D)
3569	General industrial mach., n.e.c	36	14	2,390	11,021	1,597	3,333	6,712	21,131	36,628	575	2,727	14,197
357	Office and store machines....	25	13	17,179	85,860	14,884	28,800	71,412	146,883	(2)	(D)	19,167	127,183
3576	Scales and balances.....	9	5	1,315	5,261	931	1,532	3,237	14,361	18,530	191	2,146	(D)
358	Service and household machines.....	79	45	36,227	166,690	29,266	57,965	126,560	255,078	(2)	27,022	46,730	233,173
3581	Domestic laundry equipment.....	9	8	2,653	12,336	2,035	4,020	9,043	27,385	80,976	(D)	3,788	29,239
3582	Laundry and dry-cleaning mach..	10	5	806	3,241	654	1,336	2,428	5,650	9,652	139	961	5,892
3584	Vacuum cleaners.....	13	9	4,267	19,309	3,130	6,055	12,899	46,315	77,880	1,090	9,473	51,620
3585	Refrigeration machinery.....	28	16	26,287	122,234	21,817	43,401	95,904	158,676	(2)	22,110	29,460	131,628
359	Miscellaneous machinery parts	975	210	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3591	Valves and fittings, exc. plbg.	56	32	7,470	34,819	6,041	12,903	25,127	63,759	104,887	2,546	9,342	44,195
3592	Fabricated pipe and fittings...	27	17	2,110	10,316	1,667	3,359	7,651	21,307	38,707	1,277	1,677	(D)
3594	Industrial patterns and molds...	256	42	3,967	20,248	3,390	7,266	15,814	30,888	40,082	1,238	(D)	(D)
3599	Machine shops.....	623	109	10,148	44,746	8,253	16,754	32,860	76,094	112,694	3,278	4,623	23,090
36	Electrical machinery.....	365	211	89,207	384,148	69,143	135,034	270,333	722,449	(2)	28,767	91,447	469,927
361	Electrical industrial apparatus.....	168	104	45,172	202,353	33,369	65,144	136,876	355,418	(2)	15,291	49,181	250,584
3611	Wiring devices and supplies....	27	11	1,856	8,775	1,331	2,586	5,281	17,650	27,476	849	1,902	11,361
3612	Carbon and graphite products...	10	8	1,960	8,886	1,368	2,593	5,294	15,205	25,225	642	1,834	(D)
3613	Elec. measuring instruments.....	16	8	1,600	5,639	1,272	2,369	3,744	9,195	15,617	110	1,429	4,345
3614	Motors and generators.....	50	40	30,434	131,468	22,775	44,407	93,138	221,512	376,408	8,187	35,781	159,858
3615	Transformers.....	8	6	1,101	4,736	830	1,593	3,166	13,945	24,214	(D)	1,629	11,190
3616	Electrical control apparatus...	31	19	4,437	20,486	3,235	6,452	13,419	38,462	64,835	3,738	3,161	20,053
3617	Electrical welding apparatus...	11	6	2,593	16,555	1,702	3,464	9,414	30,163	65,385	997	2,891	29,306
3619	Elec. industrial apparatus, nec	15	6	1,189	5,806	853	1,677	3,417	9,284	16,213	(D)	554	(D)
3621	Electrical appliances.....	20	13	8,946	40,432	7,421	14,521	31,336	85,595	182,949	3,730	4,599	(D)
366	Communication equipment.....	99	47	15,064	55,064	12,430	25,209	40,287	107,442	(2)	4,627	11,328	50,090
3661	Radios and related products....	78	36	10,510	38,692	8,790	17,749	28,510	69,853	(2)	3,472	8,640	36,033
3662	Electronic tubes.....	4	3	2,738	9,519	2,393	4,965	7,793	27,399	41,933	428	(D)	(D)
3663	Phonographs records.....	4	1	120	373	106	200	305	795	1,089	9	(D)	(D)
369	Electrical products, n.e.c....	41	20	5,106	21,917	3,610	6,795	13,383	30,438	(2)	1,210	7,387	45,221
3691	Storage batteries.....	9	5	1,215	5,818	799	1,566	3,370	9,577	24,496	210	1,526	12,562
3692	Primary batteries.....	5	4	2,235	9,347	1,525	2,781	5,563	8,646	19,444	505	3,453	(D)
3693	X-ray and therapeutic apparatus	8	2	805	3,469	593	1,147	2,118	4,863	7,295	67	962	(D)
3699	Electrical products, n.e.c.	19	9	850	3,282	692	1,299	2,331	7,351	13,264	427	1,446	(D)
37	Transportation equipment...	370	225	162,418	789,106	124,444	253,891	565,579	1,386,712	(2)	124,821	94,292	485,086
371	Motor vehicles and equipments	200	123	80,754	394,394	66,472	134,913	306,675	691,598	(2)	107,201	69,387	364,001
3713	Truck and bus bodies.....	37	21	4,160	18,528	3,259	6,650	13,265	28,913	57,709	593	5,436	28,017
3715	Truck trailers.....	10	7	3,748	16,585	3,128	6,101	13,286	26,523	70,162	440	2,301	11,859
3716	Automobile trailers.....	14	9	371	1,390	311	594	1,003	2,075	6,355	78	380	1,899
3717	Motor vehicles and parts.....	139	86	72,475	357,890	59,772	121,566	279,119	634,086	(2)	106,088	61,271	322,226
372	Aircraft and parts.....	110	69	73,282	355,678	50,737	104,935	226,594	634,834	(2)	13,465	15,206	71,617
3722	Aircraft engines.....	31	30	29,699	145,013	19,022	38,927	84,915	283,764	663,043	9,045	8,580	(D)
373	Ships and boats.....	33	14	2,107	9,574	1,943	3,994	8,474	15,269	(2)	880	1,138	4,669
3731	Ship building and repairing....	12	9	1,604	7,621	1,497	3,067	6,832	12,860	17,709	795	495	2,020
3732	Boat building and repairing....	21	5	503	1,953	448	926	1,642	2,409	4,829	85	643	2,649
374	Railroad equipment.....	12	11	4,254	21,118	3,564	6,823	17,155	32,996	(2)	2,510	3,921	18,449
3751	Motorcycles and bicycles.....	7	6	1,922	8,001	1,648	3,075	6,425	11,628	30,462	757	4,378	25,384
38	Instruments and related products.....	172	62	9,336	39,037	6,056	13,569	22,645	63,086	(2)	2,366	9,294	46,174
3811	Scientific instruments.....	17	5	312	1,260	237	440	755	1,790	3,627	73	219	997
3821	Mech. measuring instruments...	53	23	5,447	23,151	3,249	8,059	13,867	37,180	56,610	1,711	3,897	18,154
3831	Optical instruments & lenses.	9	1	273	1,000	222	512	694	1,714	2,788	29	44	(D)
384	Medical equipment and supplies.....	67	24	2,350	8,730	1,724	3,311	5,028	14,522	(2)	317	2,670	11,893
3841	Surgical & medical instruments.	9	2	165	612	147	289	504	1,218	1,746	(D)	(D)	(D)
3842	Surgical appliances & supplies.	47	16	1,518	5,430	1,094	2,078	2,806	9,021	15,570	140	1,549	6,981
3843	Dental equipment and supplies...	11	6	666	2,687	482	943	1,718	4,282	6,830	(D)	1,018	(D)
3861	Photographic equipment.....	16	4	356	1,689	263	565	1,099	3,092	5,252	191	443	2,090

See footnotes at end of table.



Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establish- ments, number		All employees		Production workers			Value added by manufacture	Value of shipments	Capital expendi- tures, new	All employees, number	Value added by manufacture
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
39	Miscellaneous manufactures <sup>5</sup>	792	268	46,050	185,589	36,315	71,858	128,660	305,055	( <sup>2</sup> )	13,111	35,019	136,796
391	Jewelry and silverware.....	43	7	584	2,182	451	903	1,517	4,305	( <sup>2</sup> )	88	548	2,475
393	Musical instruments and parts	17	9	2,564	10,763	2,203	4,494	8,182	11,820	( <sup>2</sup> )	404	1,962	6,613
3939	Musical instruments, n.e.c.....	9	4	597	2,374	508	1,040	1,959	2,719	3,963	125	437	(D)
394	Toys and sporting goods.....	114	42	7,724	27,690	6,564	12,704	21,342	46,224	( <sup>2</sup> )	2,171	8,181	31,092
3941	Games and toys, n.e.c.....	43	20	2,124	6,570	1,853	3,602	4,987	12,938	22,303	540	1,608	6,161
3943	Children's vehicles.....	3	3	1,462	6,649	1,406	2,937	6,308	9,829	22,438	(D)	1,271	(D)
3949	Sporting and athletic goods....	62	18	4,083	14,354	3,252	6,070	9,949	23,202	46,717	1,140	3,782	13,326
395	Office supplies.....	46	12	1,128	4,544	750	1,576	2,531	8,305	( <sup>2</sup> )	199	(D)	(D)
3954	Artists' materials.....	4	2	237	782	188	432	488	1,488	3,629	26	472	(D)
3955	Carbon paper and inked ribbons.	8	2	192	944	107	206	370	2,005	3,831	34	352	(D)
396	Costume jewelry and notions..	17	3	135	317	114	182	206	596	( <sup>2</sup> )	(D)	114	(D)
3962	Artificial flowers.....	7	3	100	230	83	134	132	385	637	(D)	23	(D)
3971	Plastics products, n.e.c.....	200	69	8,890	36,733	7,369	15,371	26,303	65,828	139,112	4,885	6,724	27,140
398 399	Miscellaneous manufactures <sup>5</sup> ..	355	126	25,023	103,357	18,861	36,625	68,574	167,973	( <sup>2</sup> )	(D)	16,167	62,864
3981	Brooms and brushes.....	37	12	1,742	7,149	1,253	2,472	4,011	10,527	19,609	675	1,659	6,735
3985	Fireworks and pyrotechnics.....	10	3	276	636	251	502	526	1,068	1,932	52	944	2,259
3988	Morticians' goods.....	42	18	1,805	6,951	1,329	2,587	4,398	10,071	16,274	346	5,401	19,748
3991	Beauty & barber-shop equipment.	4	3	165	777	116	222	401	1,279	2,184	13	82	(D)
3993	Signs and advertising displays.	167	44	3,332	13,814	2,660	5,379	9,272	21,811	37,191	740	4,179	17,460
3999	Miscellaneous products, n.e.c..	43	10	1,034	3,320	807	1,499	2,333	6,002	12,332	2,409	896	(D)
1900	Ordnance and accessories.....	35	27	14,172	62,200	10,428	20,084	41,486	104,218	( <sup>2</sup> )	968	...	...

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industries (4-digit) and industry groups (3-digit) are not shown. Industries and industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "all industries" line.

<sup>2</sup>The total value of shipments figures for industry groups and a few individual industries have not been published due to the extensive and unmeasurable duplication arising from shipments from one establishment to another in the same industry classification. (See Introduction.)

<sup>3</sup>The 1954 and 1947 "all industries" totals are not strictly comparable because of differences in scope between the two years in major groups 20 and 24 (see footnote 4).

<sup>4</sup>Comparable data for Major groups 20 and 24 are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude establishments in S.I.C. Industry 2411, Logging Camps and Contractors, which are included in the scope of the 1954 Census; the 1947 Census also excludes plants processing and distributing fluid milk which in 1954 are classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
20	Food and kindred products except subgroup 202, Dairy products.....	63,000	535,000	61,323	376,068
24	Lumber and wood products except Industry 2411, Logging camps and contractors.....	9,885	53,692	10,565	43,728

<sup>5</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)

## MANUFACTURES—AREA STATISTICS

Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947  
(For explanation of column captions see Introduction)

Code	Industry group	Establishments, number	1954						1947		
			All employees		Production workers			Value added by manufacture	Capital expenditures, new	All employees, number	Value added by manufacture
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
AKRON STANDARD METROPOLITAN AREA (Consists of Summit County, Ohio)											
	All industries, total <sup>1</sup> ...	669	85,905	389,094	63,170	114,746	259,900	619,497	33,909	294,011	2460,327
20	Food and kindred products...	73	3,361	14,717	1,918	4,038	7,763	30,333	1,035	(3)	(3)
201	Meat products.....	9	157	646	114	239	393	1,070	90	(D)	(D)
202	Dairy products.....	14	945	4,595	399	903	1,794	7,888	314	(3)	(3)
205	Bakery products.....	23	843	3,618	441	961	1,593	5,191	285	935	4,062
208	Beverages.....	8	388	1,536	186	370	586	3,092	112	564	4,204
22	Textile mill products.....	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...	...
23	Apparel & related products..	13	190	677	139	285	379	1,143	19	71	242
239	Fabricated textiles, n.e.c.....	10	164	601	119	251	334	1,010	19	(D)	(D)
24	Lumber and wood products....	18	516	2,607	371	804	1,511	2,795	81	469	2,209
243	Millwork and related products..	6	393	2,139	270	606	1,203	2,121	36	366	1,865
25	Furniture and fixtures.....	10	231	781	200	351	608	1,166	14	269	933
251	Household furniture.....	5	152	515	126	229	381	758	9	(D)	(D)
26	Pulp, paper and products....	13	719	2,680	584	1,140	1,934	3,896	445	403	3,074
261	Pulp, paper and board.....	3	153	643	136	328	552	1,198	138	(D)	(D)
266	Paper bags.....	4	349	1,213	263	460	758	1,478	167	(D)	(D)
27	Printing and publishing.....	81	1,407	7,574	966	1,813	4,740	13,043	1,929	1,479	9,730
275	Commercial printing.....	41	298	1,216	218	422	858	1,832	74	427	2,085
276	Lithographing.....	10	162	847	120	226	545	1,310	54	(D)	(D)
279	Printing trade services.....	13	250	1,471	182	355	976	2,228	53	193	1,274
28	Chemicals and products.....	22	2,889	12,610	2,004	4,062	8,941	42,519	3,128	3,567	29,968
282	Organic chemicals.....	4	781	3,980	563	1,067	2,660	13,688	663	(D)	(D)
285	Paints and allied products....	4	105	506	80	172	358	1,267	53	(D)	(D)
29	Petroleum and coal products..	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
30	Rubber products.....	47	45,930	207,151	34,660	57,125	141,144	294,030	19,583	61,396	269,047
301	Tires and inner tubes.....	6	34,611	157,089	26,117	42,233	106,864	211,125	16,942	41,910	189,343
303	Reclaimed rubber.....	4	1,090	4,638	917	1,562	3,680	8,972	350	(D)	(D)
309	Rubber industries, n.e.c.....	37	10,229	45,424	7,626	13,330	30,600	73,933	2,291	(D)	(D)
31	Leather and leather goods...	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
32	Stone, clay, & glass prod...	30	1,512	6,625	1,204	2,384	4,898	11,570	912	1,980	10,486
326	Pottery and related products...	5	1,091	4,983	836	1,610	3,501	8,871	861	1,309	7,982
327	Concrete and plaster products..	14	125	469	102	235	349	908	27	(D)	(D)
33	Primary metal industries....	23	1,041	4,577	922	1,803	3,722	7,876	263	1,171	6,056
332	Iron and steel foundries.....	7	757	3,318	675	1,316	2,699	4,584	187	827	3,419
339	Primary metal industries, nec..	6	198	906	177	341	746	2,681	34	(D)	(D)
34	Fabricated metal products...	81	8,472	36,478	5,808	11,302	22,951	71,522	2,724	8,507	47,649
342	Cutlery, tools, and hardware...	10	358	1,424	283	536	1,036	2,705	63	(D)	(D)
344	Structural metal products.....	29	6,198	26,369	3,938	7,775	15,492	53,497	1,818	5,554	34,088
346	Metal stamping and coating....	29	1,658	7,474	1,369	2,551	5,608	13,620	803	648	3,775
35	Machinery, exc. electrical..	171	6,312	31,002	5,077	10,576	22,237	57,738	2,120	5,080	28,310
354	Metalworking machinery.....	30	953	4,853	768	1,661	3,542	7,586	406	(D)	(D)
355	Special-industry machinery, nec	23	1,633	7,957	1,328	2,779	5,722	16,781	530	2,687	17,003
359	Miscellaneous machinery parts..	104	3,491	17,111	2,810	5,795	12,278	31,676	1,065	1,539	6,879
36	Electrical machinery.....	13	317	1,148	268	494	857	2,430	85	282	1,634
361	Electrical industrial apparatus	7	218	809	190	352	659	1,782	72	(D)	(D)
37	Transportation equipment....	11	9,840	(D)	6,513	(D)	(D)	(D)	(D)	(D)	(D)
38	Instruments & related prod..	9	367	1,579	291	577	971	3,101	136	145	972
384	Medical equipment and supplies.	4	129	506	96	189	255	865	7	(D)	(D)
39	Miscellaneous manufactures <sup>4</sup> ..	49	2,761	11,154	2,213	4,158	8,165	17,934	463	6,189	21,513
394	Toys and sporting goods.....	12	824	3,034	580	1,147	1,732	5,772	326	(D)	(D)
397	Plastics products, n.e.c.....	15	185	626	161	302	505	1,524	54	(D)	(D)
CANTON STANDARD METROPOLITAN AREA (Consists of Stark County, Ohio)											
	All industries, total <sup>1</sup> ...	456	56,762	247,442	45,351	86,705	184,284	449,371	19,083	255,564	(2)
20	Food and kindred products...	87	3,927	14,567	2,152	4,292	6,919	26,424	1,265	(3)	(3)
201	Meat products.....	9	1,128	3,992	766	1,552	2,865	8,011	212	591	3,134
202	Dairy products.....	32	769	2,900	457	939	1,397	5,824	501	(3)	(3)
205	Bakery products.....	20	1,751	6,765	753	1,447	2,209	10,942	427	1,209	6,342
208	Beverages.....	10	148	523	76	155	192	893	97	(D)	(D)

See footnotes at end of table.

Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Code	Industry group	Establish- ments, number	1954							1947	
			All employees		Production workers			Value added by manufacture	Capital expendi- tures, new	All employees, number	Value added by manufacture
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
22	Textile mill products.....	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
23	Apparel & related products..	10	248	590	232	444	534	779	3	373	630
24	Lumber and wood products....	11	308	1,182	243	505	728	1,556	141	207	469
243	Millwork and related products..	4	252	1,073	192	414	636	1,301	133	(D)	(D)
25	Furniture and fixtures.....	10	2,202	(D)	1,980	(D)	(D)	(D)	(D)	2,392	(D)
26	Pulp, paper and products....	8	453	2,162	372	742	1,460	3,177	271	269	1,657
267	Paperboard containers.....	5	400	1,966	327	643	1,327	2,948	271	(D)	(D)
27	Printing and publishing.....	49	1,434	5,762	815	1,612	3,276	8,175	171	846	5,095
271	Newspapers.....	9	545	2,265	288	524	1,306	4,724	28	415	3,173
275	Commercial printing.....	25	756	2,816	439	910	1,527	2,459	123	174	775
28	Chemicals and products.....	19	427	1,758	230	461	826	6,226	138	374	5,466
284	Soap and related products.....	4	154	685	68	132	258	3,596	60	(D)	(D)
285	Paints and allied products.....	5	149	621	84	166	310	1,406	33	(D)	(D)
29	Petroleum and coal products.	6	498	2,564	433	894	2,108	5,770	535	573	(D)
30	Rubber products.....	9	1,379	5,902	1,204	2,321	4,490	8,457	446	831	3,411
32	Stone, clay, & glass prod...	35	3,457	14,317	3,058	6,473	11,780	21,169	1,662	2,558	12,443
325	Structural clay products.....	13	2,951	12,091	2,712	5,737	10,483	16,924	1,108	2,264	10,836
33	Primary metal industries....	35	18,882	86,647	16,404	29,773	68,412	163,541	9,077	19,974	90,823
332	Iron and steel foundries.....	10	2,137	8,395	1,790	2,850	6,241	12,545	616	(D)	(D)
34	Fabricated metal products...	61	5,956	25,690	4,652	9,051	18,664	53,200	2,026	6,608	29,150
342	Cutlery, tools, and hardware...	4	131	479	103	194	342	856	40	(D)	(D)
344	Structural metal products.....	17	2,226	10,147	1,702	3,380	7,149	23,003	595	126	1,015
346	Metal stamping and coating....	24	1,176	4,697	943	1,773	3,321	9,720	627	1,778	6,825
349	Metal products, n.e.c.....	8	1,617	7,213	1,179	2,306	5,160	13,948	252	(D)	(D)
35	Machinery, exc. electrical..	78	15,691	69,491	12,058	23,363	51,897	121,965	2,620	16,837	92,952
355	Special-industry machinery, nec	9	398	1,890	288	604	1,170	2,049	34	253	1,148
356	General industrial machinery...	8	2,246	10,630	1,754	3,759	7,905	22,351	897	2,681	12,597
36	Electrical machinery.....	8	439	1,579	357	662	1,123	2,409	21	526	2,213
37	Transportation equipment....	4	385	(D)	298	(D)	(D)	(D)	(D)	78	456
38	Instruments & related prod..	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
39	Miscellaneous manufactures <sup>4</sup> ..	21	560	2,284	480	986	1,572	3,418	178	456	1,823
398	Miscellaneous manufactures <sup>4</sup> ....	12	475	2,034	403	830	1,352	3,069	159	374	1,586
CINCINNATI STANDARD METROPOLITAN AREA (Consists of Hamilton County, Ohio; Campbell and Kenton Counties, Kentucky)											
	All industries, total <sup>1</sup> ...	1,814	151,317	673,358	111,515	227,922	438,570	1,318,668	73,023	<sup>2</sup> 134,549	<sup>2</sup> 775,391
20	Food and kindred products...	265	17,979	76,826	11,863	24,530	43,958	166,061	8,608	( <sup>3</sup> )	( <sup>3</sup> )
201	Meat products.....	47	2,844	12,149	2,153	4,351	7,955	21,099	400	3,116	14,720
202	Dairy products.....	60	2,692	11,552	1,200	2,883	4,320	20,604	1,339	( <sup>3</sup> )	( <sup>3</sup> )
203	Canned and frozen foods.....	15	683	2,441	587	1,184	1,669	4,898	143	323	1,831
204	Grain mill products.....	10	805	3,335	577	1,244	2,160	8,280	454	711	6,750
205	Bakery products.....	41	3,983	15,852	2,543	5,311	8,793	32,844	882	3,354	17,669
207	Candy and related products....	22	655	2,034	568	1,148	1,557	3,298	148	(D)	(D)
208	Beverages.....	29	4,243	20,253	2,718	5,395	11,635	56,202	2,236	5,149	44,366
209	Miscellaneous foods.....	41	2,070	9,208	1,515	3,012	5,868	18,832	3,002	2,585	32,400
21	Tobacco manufactures.....	3	115	329	95	173	188	491	5	110	(D)
22	Textile mill products.....	16	1,062	4,122	947	1,910	3,386	8,953	226	1,087	6,060
23	Apparel & related products..	112	7,899	21,529	6,483	11,357	14,462	33,778	266	10,115	44,934
231	Men's and boys' suits and coats	25	3,192	9,140	2,736	4,760	6,553	14,627	114	5,210	26,456
232	Men's and boys' furnishings....	21	1,963	4,954	1,651	2,771	3,337	7,068	35	2,614	10,035
233	Women's and misses' outerwear..	13	1,723	4,981	1,234	2,302	2,883	7,569	36	1,513	4,198
239	Fabricated textiles, n.e.c.....	45	773	1,849	657	1,120	1,323	3,310	69	635	3,658
24	Lumber and wood products....	45	1,025	3,290	852	1,602	2,331	5,169	217	1,319	5,762
242	Lumber and basic products.....	8	260	781	214	430	586	984	26	(D)	(D)
243	Millwork and related products..	15	287	822	229	340	470	1,411	38	(D)	(D)
244	Wooden containers.....	9	235	906	203	396	692	1,471	10	403	2,075
249	Miscellaneous wood products....	13	242	780	204	435	582	1,301	143	413	1,823
25	Furniture and fixtures.....	68	3,558	15,089	2,822	6,180	11,131	25,871	763	5,046	22,662
251	Household furniture.....	30	1,719	7,660	1,399	3,247	5,738	13,556	302	1,937	10,464
254	Partitions and fixtures.....	18	312	1,335	262	544	1,030	2,035	168	(D)	(D)
256	Screens, shades and blinds.....	11	686	2,650	439	888	1,446	3,806	81	1,656	6,844

See footnotes at end of table.



## MANUFACTURES—AREA STATISTICS

Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Code	Industry group	Establish- ments, number	1954							1947	
			All employees		Production workers			Value added by manufacture	Capital expendi- tures, new	All employees, number	Value added by manufacture
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
26	Pulp, paper and products....	52	6,196	26,152	4,953	10,307	18,275	48,175	2,196	6,138	38,236
261	Pulp, paper and board.....	5	1,093	5,550	854	2,013	3,979	10,524	630	1,046	10,642
266	Paper bags.....	7	708	2,254	583	1,216	1,688	4,153	97	(D)	(D)
267	Paperboard containers.....	21	2,458	11,086	1,977	4,077	7,697	19,343	1,273	2,224	13,354
27	Printing and publishing....	288	11,942	50,585	6,541	16,906	32,080	84,654	3,568	11,421	62,637
271	Newspapers.....	24	2,359	11,198	1,347	2,296	5,966	17,398	150	1,936	12,431
272	Periodicals.....	13	799	3,344	375	660	1,279	8,003	923	1,509	9,181
273	Books.....	17	931	3,732	588	1,170	2,193	8,095	172	609	2,543
274	Miscellaneous publishing.....	6	150	616	12	22	34	2,086	(D)	(D)	(D)
275	Commercial printing.....	127	3,205	13,222	2,748	5,494	10,292	21,667	1,227	(D)	(D)
276	Lithographing.....	41	1,938	9,373	1,479	3,001	5,809	12,765	427	(D)	(D)
279	Printing trade services.....	33	628	3,366	501	1,335	2,634	5,043	137	711	4,056
28	Chemicals and products.....	105	11,358	58,261	7,100	14,502	31,965	192,799	8,923	10,198	110,117
281	Inorganic chemicals.....	6	2,418	13,052	1,683	3,732	9,052	27,762	2,229	(D)	(D)
282	Organic chemicals.....	9	1,578	7,090	1,276	2,458	5,070	12,417	1,144	(D)	(D)
283	Drugs and medicines.....	11	969	4,599	273	494	871	9,909	471	(D)	(D)
284	Soap and related products.....	17	2,265	13,181	1,402	2,872	6,881	68,916	1,081	(D)	(D)
285	Paints and allied products....	13	772	3,485	471	856	1,612	7,692	274	(D)	(D)
287	Fertilizers.....	6	553	2,310	425	930	1,629	5,611	194	689	4,608
288	Vegetable and animal oils.....	5	798	4,240	533	1,166	2,777	11,084	1,994	1,302	11,138
289	Chemical products, n.e.c.....	38	2,002	10,302	1,035	1,991	4,070	49,405	1,534	2,261	14,601
29	Petroleum and coal products.	9	1,987	9,959	1,654	3,681	7,943	23,867	7,549	977	13,027
30	Rubber products.....	10	305	1,153	226	461	715	2,545	129	213	(D)
31	Leather and leather goods...	28	1,905	5,965	1,758	3,438	5,341	8,508	134	3,369	11,974
311	Leather tanning and finishing..	5	243	1,031	215	467	858	1,238	71	(D)	(D)
314	Footwear, except rubber.....	6	1,329	4,004	1,264	2,467	3,854	6,076	48	2,197	6,173
316	Luggage.....	7	165	568	133	251	344	738	5	(D)	(D)
319	Miscellaneous leather goods....	4	133	287	117	209	226	362	9	127	255
32	Stone, clay, & glass prod...	61	1,652	6,637	1,346	2,726	4,532	12,008	477	1,792	8,516
323	Products of purchased glass....	12	260	817	227	430	656	1,418	30	384	2,047
327	Concrete and plaster products..	27	314	1,257	255	569	890	2,602	211	(D)	(D)
329	Nonmet. mineral products, nec..	14	318	1,209	266	501	727	2,292	79	272	1,904
33	Primary metal industries....	50	4,303	18,556	3,597	6,847	13,872	40,292	4,073	5,911	21,301
332	Iron and steel foundries.....	15	1,408	5,956	1,211	2,234	4,337	8,325	212	2,132	8,948
336	Nonferrous foundries.....	19	1,093	4,641	887	1,725	3,500	7,401	218	1,229	4,685
339	Primary metal industries, nec..	8	232	844	192	402	576	1,101	51	211	1,034
34	Fabricated metal products...	219	14,035	64,274	11,195	23,287	46,416	97,074	4,426	13,465	68,519
342	Cutlery, tools, and hardware...	15	323	1,231	239	450	762	2,235	27	362	1,644
343	Heating & plumbing equipment...	9	2,477	10,556	1,883	3,813	6,999	17,605	322	2,528	12,681
344	Structural metal products.....	80	3,024	14,276	2,305	4,942	9,273	22,525	983	3,025	17,222
346	Metal stamping and coating....	63	3,249	14,329	2,691	5,675	10,525	22,333	649	2,666	15,208
347	Lighting fixtures.....	7	2,645	14,160	2,178	4,575	11,722	15,535	1,703	(D)	(D)
348	Fabricated wire products.....	13	615	2,323	495	974	1,531	3,883	232	(D)	(D)
35	Machinery, exc. electrical..	241	22,264	114,034	17,366	37,443	80,432	197,755	10,152	22,281	113,334
353	Construction & mining machinery	4	419	1,968	301	631	1,221	3,378	60	(D)	(D)
354	Metalworking machinery.....	75	12,090	67,542	9,879	21,510	49,663	119,297	6,991	11,552	59,780
355	Special-industry machinery, nec	30	1,610	7,463	1,000	2,046	4,097	11,419	308	2,615	15,659
356	General industrial machinery...	32	2,835	13,529	1,915	4,057	7,991	25,829	1,036	1,971	11,143
358	Service & household machines...	11	854	3,426	673	1,405	2,427	6,018	162	1,328	7,464
359	Miscellaneous machinery parts..	83	3,747	17,115	3,050	6,572	12,884	28,923	1,395	4,170	16,205
36	Electrical machinery.....	42	8,571	34,515	6,604	13,133	23,189	72,840	749	8,440	38,246
361	Electrical industrial apparatus	19	3,155	14,262	2,207	4,424	9,129	28,651	277	4,398	21,273
366	Communication equipment.....	15	4,271	15,520	3,670	7,297	11,491	36,232	348	2,832	11,048
37	Transportation equipment....	26	21,120	106,762	12,716	26,720	60,278	210,445	15,308	5,468	39,232
38	Instruments & related prod..	27	2,135	8,858	1,633	3,269	5,392	12,451	322	2,646	15,460
382	Mech. measuring instruments....	6	140	564	95	208	321	792	35	(D)	(D)
384	Medical equipment and supplies.	11	351	1,155	244	449	542	1,973	18	(D)	(D)
39	Miscellaneous manufactures <sup>4</sup> ..	147	11,897	46,456	9,756	19,441	32,673	74,924	4,926	8,607	32,507
391	Jewelry and silverware.....	30	418	1,581	305	609	1,015	2,133	30	458	2,152
394	Toys and sporting goods.....	21	2,254	7,909	1,800	3,325	5,415	11,954	476	1,875	6,483
395	Office supplies.....	11	111	398	81	172	260	719	7	(D)	(D)
397	Plastics products, n.e.c.....	19	2,138	10,080	1,903	4,380	7,661	17,765	1,508	(D)	(D)
398	Miscellaneous manufactures <sup>4</sup> ....	60	5,213	19,021	4,146	7,927	12,931	34,470	2,684	2,963	10,546

See footnotes at end of table.

Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Code	Industry group	Establish- ments, number	1954							1947	
			All employees		Production workers			Value added by manufacture	Capital expendi- tures, new	All employees, number	Value added by manufacture
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
CLEVELAND STANDARD METROPOLITAN AREA (Consists of Cuyahoga and Lake Counties, Ohio)											
	All industries, total <sup>1</sup> ...	3,744	291,037	1,376,234	222,511	442,641	944,795	2,401,375	217,825	<sup>2</sup> 268,232	<sup>2</sup> 1,543,911
20	Food and kindred products...	296	15,034	68,490	8,889	18,873	35,090	129,509	6,924	( <sup>3</sup> )	( <sup>3</sup> )
201	Meat products.....	47	2,748	13,467	1,990	4,615	8,831	18,378	606	1,849	10,928
202	Dairy products.....	66	2,978	14,874	1,209	2,569	5,111	24,308	1,085	( <sup>3</sup> )	( <sup>3</sup> )
203	Canned and frozen foods.....	14	172	628	141	252	373	823	27	234	1,408
204	Grain mill products.....	8	236	888	152	344	550	2,266	33	176	1,244
205	Bakery products.....	53	4,252	18,108	2,498	5,425	9,578	25,808	1,060	4,548	19,488
207	Candy and related products....	22	378	1,093	298	541	699	1,619	36	(D)	(D)
208	Beverages.....	37	3,214	15,808	1,821	3,730	7,974	47,676	3,796	2,690	24,166
209	Miscellaneous foods.....	49	1,053	3,622	776	1,395	1,970	8,628	276	1,189	7,330
21	Tobacco manufactures.....	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	223	(D)
22	Textile mill products.....	36	4,496	14,658	4,146	7,705	11,814	28,500	583	4,576	28,445
225	Knitting mills.....	15	1,733	5,964	1,559	2,953	4,047	9,888	387	1,475	6,618
229	Miscellaneous textile mills....	9	163	560	135	306	424	839	76	(D)	(D)
23	Apparel and related products	161	10,011	32,457	8,507	15,305	23,142	45,826	558	12,419	56,602
231	Men's and boys' suits and coats	14	4,341	14,091	3,852	6,704	11,225	16,223	275	4,878	22,047
232	Men's and boys' furnishings....	23	1,227	4,446	908	1,745	2,373	7,903	60	1,388	5,004
233	Women's and misses' outerwear..	35	3,030	9,662	2,589	4,801	6,718	15,661	159	4,554	23,421
238	Miscellaneous apparel.....	5	255	831	238	468	639	1,143	9	392	1,362
239	Fabricated textiles.....	71	1,021	3,114	801	1,409	1,947	4,322	50	963	3,719
24	Lumber and wood products....	60	1,166	4,457	986	1,938	3,158	5,956	221	1,529	6,465
243	Millwork and related products..	18	248	1,330	179	334	693	1,803	52	292	1,549
244	Wooden containers.....	22	689	2,274	608	1,183	1,833	2,749	71	934	3,679
249	Miscellaneous wood products....	13	201	791	174	374	579	1,274	92	273	1,104
25	Furniture and fixtures.....	115	4,746	19,850	3,433	6,458	12,981	36,690	1,899	4,001	18,007
251	Household furniture.....	53	1,871	6,665	1,320	2,458	4,612	11,525	(D)	1,614	7,111
252	Office furniture.....	5	313	1,247	250	482	838	1,670	(D)	(D)	(D)
253	Public & professional furniture	8	132	612	104	201	423	896	45	(D)	(D)
254	Partitions and fixtures.....	31	2,316	10,925	1,673	3,158	6,858	21,976	1,534	1,792	7,944
26	Pulp, paper and products....	49	4,214	19,491	3,071	6,516	11,655	29,948	4,414	3,086	16,755
265	Envelopes.....	4	420	2,014	318	650	1,215	3,168	62	(D)	(D)
267	Paperboard containers.....	24	2,111	9,035	1,667	3,482	6,043	14,076	3,093	2,020	10,971
269	Pulp, paper and products, nec..	12	595	2,589	395	768	1,229	3,299	52	527	2,666
27	Printing and publishing.....	461	14,089	69,876	8,904	16,902	39,211	113,053	2,628	12,179	74,210
271	Newspapers.....	50	3,528	20,422	1,745	3,299	9,361	33,783	464	2,695	20,604
272	Periodicals.....	33	1,170	6,024	343	592	1,435	12,309	202	(D)	(D)
273	Books.....	16	816	3,624	505	962	2,067	5,354	131	654	3,437
274	Miscellaneous publishing.....	12	218	908	152	240	612	1,209	37	(D)	(D)
275	Commercial printing.....	183	3,311	16,079	2,585	5,033	11,655	25,288	773	3,215	18,066
276	Lithographing.....	74	1,545	7,745	1,234	2,367	5,429	10,727	514	1,374	7,641
279	Printing trade services.....	63	1,068	5,890	759	1,350	3,873	7,702	150	908	5,489
28	Chemicals and products.....	238	14,974	69,755	10,164	20,347	40,512	163,055	11,631	14,056	123,162
281	Inorganic chemicals.....	14	3,905	19,217	3,178	6,588	14,361	41,848	4,653	4,384	31,482
282	Organic chemicals.....	16	3,111	12,997	2,571	5,010	9,970	38,812	1,978	(D)	(D)
283	Drugs and medicines.....	20	588	2,383	430	954	1,303	4,999	60	577	4,253
284	Soap and related products.....	44	463	1,869	282	535	951	3,475	130	379	2,096
285	Paints and allied products.....	61	3,616	16,599	1,918	3,595	6,747	39,224	1,150	3,542	32,718
287	Fertilizers.....	3	256	1,099	167	367	662	2,388	206	(D)	(D)
288	Vegetable and animal oils.....	5	426	1,884	327	723	1,301	3,340	289	540	(D)
289	Chemical products, n.e.c.....	75	2,606	13,704	1,288	2,572	5,214	28,965	3,163	1,814	20,148
29	Petroleum and coal products.	36	2,797	13,865	2,135	4,135	9,768	28,441	4,948	3,377	25,520
293	Coke and byproducts.....	4	987	4,622	883	1,686	3,923	8,001	2,055	(D)	(D)
295	Paving and roofing materials...	13	470	1,940	297	608	1,158	4,596	253	(D)	(D)
30	Rubber products.....	18	2,165	10,271	1,690	3,518	6,918	16,774	1,232	2,051	9,128
31	Leather and leather goods...	11	(D)	(D)	(D)	(D)	(D)	(D)	(D)	201	(D)
32	Stone, clay, & glass prod...	102	2,859	12,661	2,352	4,839	9,275	23,566	1,374	2,745	16,594
325	Structural clay products.....	8	447	2,076	407	933	1,794	3,520	153	373	1,527
326	Pottery and related products...	6	273	869	245	436	692	1,028	23	(D)	(D)
327	Concrete and plaster products..	26	511	2,560	377	846	1,744	4,526	480	612	3,566
329	Nonmet. mineral products, nec..	37	873	3,717	693	1,346	2,384	6,604	420	463	3,067
33	Primary metal industries....	191	40,201	190,599	33,965	64,909	150,965	358,121	33,059	43,126	219,272
331	Blast furnaces and steel mills.	8	13,297	65,449	11,624	21,493	54,123	147,846	21,507	14,822	83,686
332	Iron and steel foundries.....	33	9,576	41,361	8,275	15,416	33,540	67,989	3,865	11,380	54,892
334	Secondary nonferrous metals....	18	1,150	5,883	876	1,851	3,886	15,126	576	(D)	(D)
335	Nonferrous rolling and drawing.	8	2,979	14,987	2,452	4,898	11,897	25,763	2,997	(D)	(D)
336	Nonferrous foundries.....	67	6,211	29,840	5,101	10,474	22,815	44,519	1,754	7,073	28,607
339	Primary metal industries, nec..	57	6,987	33,108	5,636	10,775	24,703	56,876	2,358	6,108	35,535

See footnote at end of table.



## MANUFACTURES—AREA STATISTICS

Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Code	Industry group	Establish- ments, number	1954							1947	
			All employees		Production workers			Value added by manufacture	Capital expendi- tures, new	All employees, number	Value added by manufacture
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
34	Fabricated metal products....	646	34,624	160,976	27,314	54,721	111,888	245,415	10,959	32,904	185,580
341	Tin cans and other tinware....	3	243	932	208	409	740	1,636	207	(D)	(D)
342	Cutlery, tools, and hardware...	40	2,744	11,197	2,072	3,930	7,613	16,690	680	(D)	(D)
343	Heating and plumbing equipment.	53	4,161	19,027	3,062	5,911	11,785	25,690	723	5,435	31,837
344	Structural metal products.....	119	4,320	20,683	3,224	6,809	13,681	31,265	1,316	3,049	17,970
346	Metal stamping and coating....	192	6,381	30,148	5,364	10,856	22,550	47,407	1,586	6,969	(D)
347	Lighting fixtures.....	31	2,029	8,894	1,483	2,891	5,467	15,236	435	3,052	14,568
348	Fabricated wire products.....	50	3,652	19,051	2,930	6,436	14,225	27,927	1,203	2,414	12,188
349	Metal products, n.e.c.....	158	11,089	51,041	8,968	17,476	35,824	79,562	4,806	9,876	62,114
35	Machinery, exc. electrical..	824	47,952	248,052	35,126	72,246	161,104	420,059	45,240	54,167	334,116
352	Tractors and farm machinery....	10	1,281	6,255	946	1,773	4,237	6,984	164	(D)	(D)
353	Construction & mining machinery	16	2,934	16,076	1,641	3,317	7,911	27,015	1,729	(D)	(D)
354	Metalworking machinery.....	304	16,158	89,783	12,185	26,159	61,351	149,310	32,137	16,671	95,100
355	Special-industry machinery, nec	55	4,166	21,992	2,995	6,183	13,300	36,700	2,040	5,826	39,851
356	General industrial machinery...	75	9,799	48,711	7,172	14,142	31,116	77,155	4,523	11,363	68,877
358	Service and household machines.	24	2,792	12,852	1,901	3,684	7,938	23,441	784	6,259	34,868
359	Miscellaneous machinery parts..	330	6,631	31,541	5,506	11,550	22,859	51,570	2,021	5,471	30,715
36	Electrical machinery.....	132	20,569	94,928	14,726	28,219	57,856	159,901	6,503	23,293	132,369
361	Electrical industrial apparatus	68	12,324	61,924	8,429	16,171	35,969	104,751	5,067	11,711	69,269
364	Engine electrical equipment....	4	104	382	77	148	237	746	17	(D)	(D)
366	Communication equipment.....	29	2,252	8,278	1,836	3,775	5,935	13,661	278	2,508	9,111
369	Electrical products, n.e.c.....	19	3,778	16,691	2,540	4,725	9,646	20,138	856	5,399	33,925
37	Transportation equipment....	110	57,774	286,170	47,740	97,392	223,621	495,204	83,740	35,094	192,024
371	Motor vehicles and equipment...	52	31,779	160,039	26,748	54,729	128,018	280,143	76,561	22,997	123,568
372	Aircraft and parts.....	37	22,990	112,272	18,433	37,587	84,515	194,946	4,580	8,772	48,563
373	Ships and boats.....	12	480	2,251	420	885	1,852	3,192	94	(D)	(D)
38	Instruments & related prod..	55	2,888	13,055	1,797	3,816	6,529	19,295	378	2,399	12,310
381	Scientific instruments.....	5	144	685	101	196	357	783	34	(D)	(D)
382	Mech. measuring instruments....	18	1,821	8,582	1,021	2,248	4,016	12,483	175	1,413	7,745
384	Medical equipment and supplies.	18	565	2,369	376	761	1,118	3,748	83	585	2,863
386	Photographic equipment.....	8	175	714	138	290	490	1,219	69	(D)	(D)
39	Miscellaneous manufactures <sup>4</sup> ..	201	10,415	46,425	7,509	14,703	29,171	81,778	1,522	4,765	20,614
393	Musical instruments and parts...	4	416	1,810	346	713	1,476	1,800	16	407	1,303
394	Toys and sporting goods.....	16	1,281	5,795	1,253	2,646	5,636	8,100	411	220	742
395	Office supplies.....	14	435	1,838	294	621	902	3,479	58	308	1,690
397	Plastics products, n.e.c.....	48	1,012	4,182	766	1,484	2,603	7,282	381	1,302	6,291
398	Miscellaneous manufactures <sup>4</sup> ....	106	7,216	32,632	4,803	9,162	18,430	60,782	615	2,391	10,222
COLUMBUS STANDARD METROPOLITAN AREA (Consists of Franklin County, Ohio)											
	All industries, total <sup>1</sup> ...	792	72,936	314,521	51,934	105,055	204,464	581,383	34,731	<sup>2</sup> 54,925	<sup>2</sup> 277,964
20	Food and kindred products...	123	8,720	35,950	4,815	10,424	17,660	86,468	2,945	( <sup>3</sup> )	( <sup>3</sup> )
201	Meat products.....	16	2,395	11,044	1,601	3,617	7,229	40,107	536	1,976	9,373
202	Dairy products.....	19	1,829	7,526	822	1,903	2,767	14,268	1,028	( <sup>3</sup> )	( <sup>3</sup> )
205	Bakery products.....	29	2,956	11,681	1,503	3,134	4,841	19,865	708	2,923	12,831
207	Candy and related products....	15	133	313	95	129	165	542	11	(D)	(D)
208	Beverages.....	12	596	2,282	275	542	976	4,508	136	828	4,867
209	Miscellaneous foods.....	23	727	2,798	457	978	1,534	6,602	356	686	6,428
22	Textile mill products.....	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
23	Apparel & related products..	32	870	2,255	759	1,335	1,744	3,509	84	1,296	4,773
232	Men's and boys' furnishings....	7	403	1,108	355	610	838	1,397	71	(D)	(D)
239	Fabricated textiles, n.e.c.....	19	147	362	119	241	249	686	13	286	1,082
24	Lumber and wood products....	25	364	1,427	287	544	914	2,727	133	438	(D)
243	Millwork and related products..	10	143	577	109	212	363	1,425	57	(D)	(D)
25	Furniture and fixtures.....	35	700	3,065	566	1,191	2,219	4,429	662	733	3,215
251	Household furniture.....	13	210	782	162	359	501	1,308	484	(D)	(D)
254	Partitions and fixtures.....	11	403	1,976	335	682	1,496	2,651	168	(D)	(D)
26	Pulp, paper and products....	16	1,200	4,885	894	1,884	3,002	8,561	303	1,053	5,459
267	Paperboard containers.....	6	557	2,380	424	926	1,525	4,202	245	(D)	(D)
269	Pulp, paper and products, nec..	4	358	1,188	259	500	631	1,616	39	300	1,381
27	Printing and publishing.....	118	4,285	19,912	2,216	4,274	10,085	31,833	4,811	3,215	18,737
271	Newspapers.....	17	1,688	8,998	836	1,606	4,224	12,869	2,052	1,264	8,034
272	Periodicals.....	17	563	2,363	211	393	845	6,696	2,065	525	4,195
273	Books.....	6	191	671	10	19	33	1,464	122	(D)	(D)
275	Commercial printing.....	47	973	4,340	693	1,303	2,893	5,792	353	859	3,985
276	Lithographing.....	16	343	1,720	263	526	1,178	2,530	161	115	654
279	Printing trade services.....	11	216	1,064	164	367	797	1,514	54	177	913

See footnotes at end of table.



Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947—Continued  
 (For explanation of column captions see Introduction)

Code	Industry group	Establish- ments, number	1954							1947	
			All employees		Production workers			Value added by manufacture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
28	Chemicals and products.....	47	1,867	7,363	1,157	2,244	3,684	16,351	655	1,739	12,315
283	Drugs and medicines.....	11	276	1,227	145	270	456	2,135	22	472	2,684
285	Paints and allied products....	7	567	2,356	353	681	1,147	5,608	197	378	2,815
287	Fertilizers.....	6	421	1,536	309	671	1,005	4,603	220	435	3,007
289	Chemical products, n.e.c.....	16	241	888	129	252	422	1,713	69	152	981
29	Petroleum and coal products..	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	98	868
30	Rubber products.....	8	101	437	73	153	274	1,052	188	(D)	(D)
309	Rubber industries, n.e.c.....	8	101	437	73	153	274	1,052	188	(D)	(D)
31	Leather and leather goods...	17	2,221	6,533	1,837	2,998	4,565	9,643	113	2,688	8,616
314	Footwear, except rubber.....	7	2,071	6,079	1,708	2,768	4,250	8,923	95	(D)	(D)
32	Stone, clay, & glass prod...	47	3,412	13,899	2,918	5,908	11,153	28,429	1,446	2,628	11,807
327	Concrete and plaster products..	28	594	2,432	460	948	1,638	4,267	679	328	2,186
33	Primary metal industries....	23	2,451	10,387	2,010	3,910	7,629	11,583	1,300	3,940	17,364
332	Iron and steel foundries.....	8	1,886	8,113	1,565	3,083	6,057	8,582	1,173	3,169	13,721
34	Fabricated metal products...	93	10,578	46,746	8,427	16,898	34,607	84,484	6,361	7,907	39,385
343	Heating and plumbing equipment.	11	1,948	8,908	1,280	2,655	5,382	19,604	881	2,404	15,650
344	Structural metal products.....	37	1,528	6,648	1,193	2,581	4,719	12,061	441	1,299	6,392
346	Metal stamping and coating....	14	1,583	5,989	1,345	2,638	4,686	8,179	321	830	2,815
35	Machinery, exc. electrical...	109	13,387	55,882	10,267	19,633	38,920	87,863	13,464	12,277	72,651
352	Tractors and farm machinery...	6	176	723	152	315	555	992	12	106	371
354	Metalworking machinery.....	16	355	1,942	299	684	1,472	3,040	194	475	2,877
355	Special-industry machinery, nec	5	220	1,022	158	345	588	1,796	89	417	3,281
356	General industrial machinery...	16	1,485	6,697	1,147	2,448	4,667	15,388	593	3,779	22,203
357	Office and store machines.....	4	233	1,156	149	326	601	1,891	26	(D)	(D)
358	Service and household machines.	6	2,613	10,042	2,319	4,281	8,593	9,077	11,433	(D)	(D)
36	Electrical machinery.....	8	683	3,191	490	1,026	1,965	4,877	209	711	2,654
37	Transportation equipment....	21	17,157	(D)	12,114	(D)	(D)	(D)	(D)	4,646	17,608
371	Motor vehicles and equipment...	11	941	4,623	750	1,425	3,248	7,033	186	(D)	(D)
38	Instruments & related prod...	14	1,509	6,809	398	2,059	4,069	9,986	321	1,530	7,030
382	Mech. measuring instruments....	6	1,299	5,989	257	1,768	3,610	8,870	286	(D)	(D)
384	Surgical & medical instruments.	4	167	659	119	243	385	974	27	(D)	(D)
39	Miscellaneous manufactures <sup>4</sup> .	48	2,247	8,545	1,848	3,810	6,158	15,182	655	1,614	6,068
397	Plastics products, n.e.c.....	14	862	3,752	731	1,609	2,438	7,237	351	261	1,336
398	Miscellaneous manufactures <sup>4</sup> ....	23	1,315	4,609	1,066	2,101	3,578	7,573	291	1,286	4,489
DAYTON STANDARD METROPOLITAN AREA (Consists of Greene and Montgomery Counties, Ohio)											
	All industries, total <sup>1</sup> ...	770	97,117	463,019	78,375	157,717	350,009	747,419	48,741	<sup>2</sup> 95,347	<sup>2</sup> 496,380
20	Food and kindred products...	88	4,609	19,111	2,851	5,864	9,798	38,973	2,681	( <sup>3</sup> )	( <sup>3</sup> )
201	Meat products.....	10	558	2,462	419	870	1,581	3,626	198	(D)	(D)
202	Dairy products.....	24	1,326	6,387	603	1,350	2,341	11,547	720	( <sup>3</sup> )	( <sup>3</sup> )
205	Bakery products.....	20	1,886	7,308	1,280	2,573	4,331	17,502	1,125	1,937	14,132
208	Beverages.....	10	330	1,306	156	313	496	2,759	472	336	1,912
209	Miscellaneous foods.....	10	322	1,174	232	475	723	2,832	151	318	2,631
22	Textile mill products.....	6	344	1,008	314	641	873	1,991	36	(D)	(D)
23	Apparel & related products...	13	230	586	181	339	331	797	22	396	1,428
24	Lumber and wood products...	25	539	2,047	451	922	1,493	2,454	47	(D)	(D)
243	Millwork and related products...	11	202	882	159	319	589	812	17	(D)	(D)
244	Wooden containers.....	4	294	1,068	255	533	821	1,480	19	(D)	(D)
25	Furniture and fixtures.....	20	520	1,797	417	800	1,284	2,666	432	281	1,259
251	Household furniture.....	11	299	978	259	487	789	1,635	423	(D)	(D)
26	Pulp, paper and products....	19	2,973	12,436	2,511	5,379	9,665	22,032	1,045	2,609	13,551
261	Pulp, paper and board.....	5	1,100	5,011	930	2,206	4,093	9,407	461	(D)	(D)
267	Paperboard containers.....	4	333	1,393	261	553	942	2,715	131	(D)	(D)
27	Printing and publishing.....	96	8,677	41,213	6,324	12,487	28,285	72,863	4,456	7,934	58,901
275	Commercial printing.....	39	5,638	27,428	4,503	9,036	20,248	46,900	3,644	2,920	18,268
276	Lithographing.....	15	1,058	4,801	772	1,511	3,262	8,866	409	(D)	(D)
279	Printing trade services.....	15	315	1,922	228	424	1,316	2,380	126	302	2,015
28	Chemicals and products.....	37	1,287	5,422	836	1,665	3,094	11,567	317	1,233	11,842
284	Soap and related products.....	4	381	1,607	254	487	927	3,004	61	(D)	(D)
285	Paints and allied products....	10	557	2,384	354	736	1,459	6,237	75	504	6,686
289	Chemical products, n.e.c.....	14	233	969	136	255	420	1,648	51	(D)	(D)

See footnotes at end of table.

## MANUFACTURES—AREA STATISTICS

Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Code	Industry group	Establish- ments, number	1954							1947	
			All employees		Production workers			Value added by manufacture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours 1,000	Wages (\$1,000)				
29	Petroleum and coal products..	5	202	846	85	196	296	1,604	18	(D)	(D)
30	Rubber products.....	8	6,477	31,438	5,299	10,849	24,374	57,437	5,153	2,634	(D)
31	Leather and leather goods...	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
32	Stone, clay, & glass prod...	29	1,379	6,587	1,148	2,523	4,867	14,365	834	1,001	5,481
327	Concrete and plaster products..	16	491	2,630	396	952	1,740	3,413	225	(D)	(D)
33	Primary metal industries....	35	3,422	15,750	2,959	5,677	12,446	20,971	1,633	3,030	12,249
332	Iron and steel foundries.....	14	2,034	8,855	1,759	3,168	7,044	12,836	1,045	1,975	7,493
336	Nonferrous foundries.....	15	1,174	5,764	1,019	2,131	4,619	6,363	496	853	3,554
339	Primary metal industries, nec..	6	214	1,130	180	378	782	1,771	91	202	1,202
34	Fabricated metal products...	77	1,725	7,456	1,414	2,835	5,203	12,475	512	3,248	15,130
342	Cutlery, tools, and hardware...	8	605	2,556	504	1,031	1,830	4,404	19	176	907
344	Structural metal products.....	18	401	1,935	292	601	1,154	2,988	126	545	3,206
346	Metal stamping and coating....	23	267	1,004	234	444	790	1,881	207	608	1,974
348	Fabricated wire products.....	4	120	543	104	223	421	740	79	(D)	(D)
349	Metal products, n.e.c.....	20	293	1,247	251	480	895	2,254	68	187	1,186
35	Machinery, exc. electrical..	200	42,698	216,100	35,906	72,298	172,546	307,564	21,548	41,566	204,010
354	Metalworking machinery.....	102	4,031	25,428	3,346	7,682	19,492	38,938	1,346	2,988	19,746
355	Special-industry machinery, nec	15	946	4,765	670	1,304	2,957	8,637	402	(D)	(D)
356	General industrial machinery...	20	2,256	10,092	1,676	3,065	6,671	20,594	662	(D)	(D)
358	Service and household machines.	4	21,184	102,686	17,371	35,107	79,921	134,218	10,309	(D)	(D)
36	Electrical machinery.....	22	12,472	55,931	10,261	20,206	42,436	96,601	3,618	14,483	68,958
361	Electrical industrial apparatus	15	12,216	55,064	10,044	19,745	41,833	95,241	3,525	14,212	67,860
37	Transportation equipment....	28	7,801	38,741	6,043	12,406	28,400	72,527	5,826	9,466	44,462
371	Motor vehicles and equipment...	9	4,066	20,063	3,444	7,188	16,378	40,328	5,179	(D)	(D)
38	Instruments & related prod...	13	130	495	96	184	315	793	34	1,721	6,206
39	Miscellaneous manufactures <sup>4</sup> .	48	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1,451	6,340
394	Toys and sporting goods.....	8	151	408	127	229	239	854	84	(D)	(D)
397	Plastics products, n.e.c.....	14	670	2,797	558	1,069	2,074	4,305	239	645	2,337
TOLEDO STANDARD METROPOLITAN AREA (Consists of Lucas County, Ohio)											
	All industries, total <sup>1</sup> ...	711	61,123	296,607	46,107	89,475	203,835	534,636	30,020	<sup>2</sup> 70,588	<sup>2</sup> 393,578
20	Food and kindred products...	83	4,522	19,778	2,496	5,032	9,161	37,324	2,850	( <sup>3</sup> )	( <sup>3</sup> )
201	Meat products.....	6	476	1,927	350	737	1,413	2,989	108	395	2,492
202	Dairy products.....	12	1,204	5,859	467	935	1,870	10,122	530	( <sup>3</sup> )	( <sup>3</sup> )
204	Grain mill products.....	5	635	2,577	424	814	1,614	6,589	1,626	(D)	(D)
205	Bakery products.....	21	1,100	4,817	623	1,249	2,215	7,561	193	1,530	6,444
208	Beverages.....	8	501	2,005	219	431	761	5,073	141	628	4,265
209	Miscellaneous foods.....	19	457	2,146	288	619	941	3,804	199	640	3,191
21	Tobacco manufactures.....	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
22	Textile mill products.....	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
23	Apparel & related products..	22	842	2,518	651	1,122	1,618	3,370	15	1,417	5,407
233	Women's and misses' outerwear..	4	214	539	198	299	490	1,016	1	(D)	(D)
239	Fabricated textiles, n.e.c.....	11	445	1,583	281	547	775	1,894	11	638	2,556
24	Lumber and wood products....	23	848	3,269	708	1,277	2,329	6,728	166	595	2,680
243	Millwork and related products..	11	425	1,797	349	578	1,255	3,966	53	(D)	(D)
25	Furniture and fixtures.....	17	483	2,733	514	1,057	2,024	3,284	788	576	2,721
251	Household furniture.....	11	322	1,261	266	560	958	1,215	759	365	2,085
26	Pulp, paper and products....	15	1,174	4,714	953	1,861	3,265	8,468	456	643	3,666
267	Paperboard containers.....	8	538	2,197	430	810	1,510	3,481	145	(D)	(D)
27	Printing and publishing....	87	2,795	15,948	1,650	3,157	9,426	24,435	615	1,556	10,112
271	Newspapers.....	15	1,881	11,505	1,000	1,920	6,300	18,141	164	(D)	(D)
275	Commercial printing.....	33	384	1,664	292	544	1,206	2,368	225	483	2,222
276	Lithographing.....	11	277	1,676	204	406	1,261	2,190	179	(D)	(D)
279	Printing trade services.....	11	146	764	107	211	542	1,078	24	(D)	(D)
28	Chemicals and products.....	41	1,576	7,967	1,092	2,193	5,030	23,689	735	1,521	13,608
282	Organic chemicals.....	5	550	3,038	424	847	2,315	8,066	273	(D)	(D)
284	Soap and related products.....	7	170	1,161	34	66	165	2,416	78	(D)	(D)
285	Paints and allied products....	8	486	2,327	333	654	1,471	8,954	234	(D)	(D)
287	Fertilizers.....	3	220	866	203	438	747	2,333	48	205	1,597
29	Petroleum and coal products....	8	2,779	15,584	2,125	4,207	11,156	46,794	12,440	1,945	25,484

See footnotes at end of table.

Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Code	Industry group	Establish- ments, number	1954						1947		
			All employees		Production workers			Value added by manufacture	Capital expendi- tures, new	All employees, number	Value added by manufacture
			Numero	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
30	Rubber products.....	8	250	1,099	187	346	661	1,770	125	359	(D)
309	Rubber industries, n.e.c.....	8	250	1,099	187	346	661	1,770	125	(D)	(D)
31	Leather and leather goods...	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
32	Stone, clay, & glass prod...	33	3,874	18,847	3,301	6,656	15,252	58,649	951	3,146	27,849
327	Concrete and plaster products..	19	245	1,274	186	373	720	2,343	128	(D)	(D)
33	Primary metal industries....	31	5,025	27,069	4,371	8,866	22,272	39,816	996	5,402	32,251
332	Iron and steel foundries.....	12	1,262	5,507	1,089	2,025	4,315	7,531	185	1,807	7,865
336	Nonferrous foundries.....	9	3,063	18,205	2,703	5,717	15,561	23,514	671	(D)	(D)
34	Fabricated metal products...	108	5,733	26,606	4,864	9,360	20,649	42,517	1,515	7,528	37,319
344	Structural metal products.....	26	571	2,702	449	908	1,955	4,621	267	600	2,736
346	Metal stamping and coating....	53	3,080	13,876	2,635	4,897	10,504	23,431	545	3,719	19,620
349	Metal products, n.e.c.....	17	1,027	4,933	843	1,665	3,794	6,989	474	1,095	4,877
35	Machinery, exc. electrical..	131	9,450	44,770	6,584	12,651	28,488	74,302	2,489	12,373	63,028
354	Metalworking machinery.....	45	2,566	13,325	1,967	4,086	9,511	22,061	1,589	2,077	9,919
355	Special industry machinery, nec	14	261	1,208	217	428	931	2,277	64	757	4,629
356	General industrial machinery...	14	2,702	13,379	1,426	2,725	6,152	28,870	230	3,502	19,636
358	Service and household machines.	5	631	2,310	466	755	1,662	4,185	32	1,925	8,842
359	Miscellaneous machinery parts..	44	994	4,195	781	1,489	2,996	6,271	182	877	4,511
36	Electrical machinery.....	17	7,197	37,317	5,316	10,222	25,385	61,474	1,244	11,675	60,112
361	Electrical industrial apparatus	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
37	Transportation equipment....	25	11,395	53,798	8,920	16,695	37,720	67,205	3,564	15,166	73,897
371	Motor vehicles and equipment...	14	10,513	49,216	8,225	15,136	34,431	58,924	2,951	14,237	69,584
38	Instruments & related prod..	10	305	1,193	256	467	901	2,669	123	482	2,443
39	Miscellaneous manufactures <sup>4</sup> .	46	1,808	7,387	1,368	2,641	5,038	11,282	308	1,066	4,023
397	Plastics products, n.e.c.....	15	224	889	184	374	643	1,215	40	405	1,883
398	Miscellaneous manufactures <sup>4</sup> ....	20	1,419	5,882	1,048	2,013	3,938	8,997	227	522	1,827
("All manufacturing" totals for the Wheeling-Steubenville Standard Metropolitan Area (which includes Belmont and Jefferson Counties, Ohio) appear in Table 3. Industry group statistics for this area are shown in the 1954 Census of Manufactures report for the State of West Virginia)											
YOUNGSTOWN STANDARD METROPOLITAN AREA (Consists of Mahoning and Trumbull Counties, Ohio; Mercer County Pennsylvania)											
	All industries, total....	723	105,646	479,748	88,386	166,522	374,054	873,610	49,129	<sup>2</sup> 109,021	<sup>2</sup> 569,388
20	Food and kindred products...	123	2,691	10,509	1,437	2,966	4,783	17,051	864	( <sup>3</sup> )	( <sup>3</sup> )
201	Meat products.....	15	204	744	150	265	493	1,847	20	209	972
202	Dairy products.....	41	848	3,491	463	1,088	1,713	5,594	460	( <sup>3</sup> )	( <sup>3</sup> )
205	Bakery products.....	28	1,016	4,129	486	951	1,637	6,077	203	(D)	(D)
208	Beverages.....	16	397	1,436	187	370	501	2,465	116	416	1,992
209	Miscellaneous foods.....	11	112	362	70	136	190	411	18	132	499
23	Apparel & related products..	16	591	1,311	530	945	1,067	2,169	31	620	2,030
239	Fabricated textiles, n.e.c.....	8	107	267	93	167	193	463	19	(D)	(D)
24	Lumber and wood products....	57	310	819	273	508	647	1,535	78	757	3,276
242	Lumber and basic products.....	39	188	446	170	292	364	978	58	(D)	(D)
25	Furniture and fixtures.....	17	3,328	(D)	2,791	(D)	(D)	(D)	(D)	5,621	23,265
26	Pulp, paper and products....	4	184	596	153	309	451	1,034	531	(D)	(D)
27	Printing and publishing.....	57	1,396	6,248	794	1,488	3,506	10,955	372	1,086	6,485
271	Newspapers.....	14	880	3,982	392	686	1,775	7,676	66	707	4,865
275	Commercial printing.....	28	269	1,013	209	405	779	1,465	73	245	975
276	Lithographing.....	6	163	789	133	285	617	1,243	205	(D)	(D)
28	Chemicals and products.....	16	317	1,289	216	441	810	3,733	154	323	1,952
29	Petroleum and coal products.	5	1,323	(D)	1,228	(D)	(D)	(D)	(D)	1,784	(D)
30	Rubber products.....	6	1,251	5,891	977	1,980	4,260	7,857	83	1,674	(D)
31	Leather and leather goods...	3	618	(D)	576	(D)	(D)	(D)	(D)	690	(D)
32	Stone, clay, & glass prod...	64	3,139	11,294	2,800	4,945	9,331	18,791	510	2,888	12,755
326	Pottery and related products...	10	1,669	5,523	1,520	2,487	4,611	6,926	21	1,550	5,649
327	Concrete and plaster products..	29	202	629	151	307	437	1,341	96	(D)	(D)
329	Nonmet. mineral products, nec..	16	433	1,790	371	727	1,442	4,819	274	649	3,771

See footnotes at end of table.



## MANUFACTURES—AREA STATISTICS

Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Code	Industry group	Establishments, number	1954							1947	
			All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
33	Primary metal industries....	71	53,414	242,970	47,147	87,647	201,933	401,310	24,422	55,822	281,973
331	Blast furnaces and steel mills.	24	41,072	185,619	36,824	66,891	157,137	305,841	17,159	47,202	232,083
332	Iron and steel foundries.....	8	1,903	9,116	1,574	3,040	6,852	13,962	884	3,387	14,843
335	Nonferrous rolling and drawing.	11	819	3,522	728	1,457	2,841	6,975	314	(D)	(D)
339	Primary metal industries, nec..	16	9,358	43,622	7,804	15,880	34,300	72,941	5,937	4,705	31,995
34	Fabricated metal products...	128	11,605	54,055	9,459	18,071	40,241	102,666	3,708	9,989	62,288
342	Cutlery, tools, and hardware...	9	371	1,406	301	518	984	2,338	74	391	2,100
343	Heating and plumbing equipment.	8	1,923	9,582	1,565	2,872	6,800	15,036	914	(D)	(D)
344	Structural metal products.....	71	5,961	28,723	4,769	9,352	21,691	56,334	1,921	5,714	39,047
349	Metal products, n.e.c.....	14	1,587	7,011	1,331	2,487	5,383	12,185	499	1,723	9,563
35	Machinery, exc. electrical..	80	6,424	30,441	5,083	9,937	22,186	49,999	2,899	7,014	37,576
354	Metalworking machinery.....	22	2,338	12,458	1,894	4,015	9,363	20,795	1,530	2,588	13,080
356	General industrial machinery...	7	624	2,827	406	833	1,691	3,569	306	(D)	(D)
358	Service and household machines.	4	148	789	103	216	403	1,420	28	(D)	(D)
359	Miscellaneous machinery parts..	39	1,371	6,381	1,072	2,110	4,892	12,756	917	1,004	4,925
36	Electrical machinery.....	21	11,732	54,275	8,796	16,511	36,826	154,469	4,349	13,807	84,398
361	Electrical industrial apparatus	6	8,512	42,288	5,893	11,035	26,897	117,193	2,926	(D)	(D)
37	Transportation equipment....	16	6,104	30,604	5,103	10,048	24,658	49,200	1,009	4,672	20,106
374	Railroad equipment.....	3	3,163	15,537	2,690	4,904	13,007	24,395	499	(D)	(D)
38	Instruments & related prod..	8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	(D)	(D)
39	Miscellaneous manufactures <sup>4</sup> .	31	1,130	5,275	952	1,905	3,696	6,484	341	244	680
394	Toys and sporting goods.....	4	238	532	203	391	368	1,078	86	(D)	(D)
398	Miscellaneous manufactures <sup>4</sup> ....	19	815	4,522	684	1,382	3,160	5,008	212	(D)	(D)

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industry groups (3-digit) are not shown. Industry groups (2 and 3 digit) reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "All industries" line.

<sup>2</sup>The 1954 and 1947 "All industries" totals are not strictly comparable because of differences in scope between the two years in Major group 20 (see footnote 3).

<sup>3</sup>Comparable data for Major group 20 are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude plants processing and distributing fluid milk which in 1954 were classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
20	Food and kindred products except Subgroup 202, Dairy Products				
	Akron Standard Metropolitan Area.....	2,416	22,445	(D)	(D)
	Canton Standard Metropolitan Area.....	3,158	20,600	2,095	11,026
	Cincinnati Standard Metropolitan Area.....	15,287	145,457	15,475	118,470
	Cleveland Standard Metropolitan Area.....	12,056	105,201	11,173	66,935
	Columbus Standard Metropolitan Area.....	6,891	72,200	6,671	34,669
	Dayton Standard Metropolitan Area.....	3,283	27,426	2,973	20,412
	Toledo Standard Metropolitan Area.....	3,318	27,202	3,800	20,000
	Youngstown Standard Metropolitan Area.....	1,843	11,457	1,900	8,800

<sup>4</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)

Table 6.—GENERAL STATISTICS FOR PRINCIPAL INDUSTRIAL COUNTIES, BY MAJOR INDUSTRY GROUP: 1954 AND 1947  
(Principal industrial counties include all counties with 20,000 or more manufacturing employees. For explanation of column captions see Introduction)

Code	Major industry group	1954								1947	
		Establish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendit- ures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
BUTLER COUNTY											
	All industries, total <sup>1</sup> .....	182	31,764	152,989	25,604	52,818	115,403	310,319	20,399	<sup>2</sup> 27,047	<sup>2</sup> 137,406
20	Food and kindred products.....	29	1,089	4,229	610	1,293	2,167	11,745	1,122	712	2,087
26	Pulp, paper and products.....	19	7,124	34,460	5,841	12,297	25,454	58,004	3,644	6,831	43,465
27	Printing and publishing.....	23	541	2,278	299	584	1,111	4,018	185	429	2,596
32	Stone, clay, & glass products..	6	101	430	80	195	307	802	31	93	737
34	Fabricated metal products.....	24	3,772	16,198	3,040	6,088	11,754	31,077	1,773	5,013	25,645
35	Machinery, except electrical..	32	4,348	20,596	3,291	6,709	13,892	29,103	1,511	4,592	18,981
37	Transportation equipment.....	10	7,138	37,193	5,918	12,809	29,793	85,853	5,971	2,143	(D)
39	Miscellaneous manufactures <sup>3</sup> ...	7	179	654	155	335	489	1,207	136	54	(D)
CUYAHOGA COUNTY											
	All industries, total <sup>1</sup> .....	3,583	279,139	1,320,450	213,096	423,567	904,886	2,296,567	209,230	<sup>2</sup> 259,516	<sup>2</sup> 1,486,070
20	Food and kindred products.....	287	14,944	68,123	8,836	18,756	34,916	128,976	6,889	11,993	71,023
24	Lumber and wood products.....	53	1,121	4,344	952	1,882	3,079	5,804	218	1,443	6,159
27	Printing and publishing.....	446	13,748	68,664	8,645	16,394	38,352	111,032	2,557	11,958	73,302
28	Chemicals and products.....	221	9,148	42,243	5,604	11,107	20,998	106,189	5,171	9,239	85,830
33	Primary metal products.....	187	40,071	190,028	32,854	64,705	150,598	357,389	33,004	(D)	(D)
34	Fabricated metal products.....	622	34,353	159,778	27,102	54,284	111,072	243,704	10,879	32,819	185,208
35	Machinery, except electrical..	777	46,241	239,180	33,740	69,387	154,738	404,432	44,771	53,191	327,673
37	Transportation equipment.....	103	57,165	283,101	47,248	96,348	221,275	492,841	83,716	35,061	(D)
39	Miscellaneous manufactures <sup>3</sup> ...	195	10,324	46,090	7,437	14,567	28,932	81,178	1,499	(D)	(D)
Franklin County is coextensive with the Columbus Standard Metropolitan Area. Data for this area are shown in Table 5.											
HAMILTON COUNTY											
	All industries, total <sup>1</sup> .....	1,660	142,139	634,816	104,441	213,460	412,651	1,236,313	66,626	<sup>2</sup> 125,329	<sup>2</sup> 727,798
20	Food and kindred products.....	233	16,336	69,095	10,771	22,004	39,658	145,667	7,690	14,681	110,619
23	Apparel and related products..	105	7,058	19,395	5,722	9,778	12,673	31,167	253	9,215	(D)
24	Lumber and wood products.....	41	951	3,066	790	1,469	2,153	4,875	213	1,213	5,441
25	Furniture and fixtures.....	63	3,281	13,927	2,637	5,768	10,473	24,351	686	4,635	20,141
26	Pulp, paper and products.....	47	5,749	24,755	4,576	9,476	17,120	45,346	2,172	5,850	(D)
27	Printing and publishing.....	277	11,838	50,234	8,458	16,747	31,818	84,087	3,544	11,322	62,232
28	Chemicals and products.....	99	11,235	57,695	7,028	14,358	31,698	191,853	8,902	10,103	(D)
31	Leather and leather goods.....	28	1,905	5,965	1,758	3,438	5,341	8,508	134	(D)	(D)
32	Stone, clay, & glass products..	51	1,589	6,417	1,301	2,633	4,406	11,540	452	1,716	8,189
34	Fabricated metal products.....	195	13,205	60,869	10,543	22,011	44,155	91,278	3,920	12,752	65,732
35	Machinery, except electrical..	222	21,717	111,161	16,946	36,527	78,566	193,332	10,007	21,866	111,482
36	Electrical machinery.....	37	7,464	29,274	5,918	11,788	20,510	61,796	541	7,583	(D)
37	Transportation equipment.....	24	21,084	106,612	12,684	26,655	60,148	210,169	15,274	(D)	(D)
39	Miscellaneous manufactures <sup>3</sup> ...	136	11,684	45,779	9,582	19,115	32,204	73,859	4,905	8,334	31,616
LORAIN COUNTY											
	All industries, total <sup>1</sup> .....	235	30,096	136,363	24,893	48,766	105,224	282,297	15,387	<sup>2</sup> 28,980	<sup>2</sup> 131,638
20	Food and kindred products.....	44	645	2,289	359	693	1,040	4,118	162	397	(D)
27	Printing and publishing.....	20	410	1,647	215	424	828	3,031	135	274	1,479
28	Chemicals and products.....	9	501	2,343	382	779	1,694	13,586	360	267	2,156
32	Stone, clay, & glass products..	10	101	543	76	177	384	1,715	206	45	162
34	Fabricated metal products.....	52	4,716	21,799	3,680	7,175	15,702	49,282	1,393	4,720	25,351
35	Machinery, except electrical..	39	2,110	10,197	1,594	3,012	6,433	19,253	497	2,708	20,683
36	Electrical machinery.....	7	1,366	5,807	1,205	2,410	4,973	9,644	589	1,268	(D)
37	Transportation equipment.....	9	5,970	28,500	4,932	10,029	22,256	50,011	2,041	2,528	17,168
Lucas County is coextensive with the Toledo Standard Metropolitan Area. Data for this area are shown in Table 5.											

See footnotes at end of table.

## MANUFACTURES—AREA STATISTICS

Table 6.—GENERAL STATISTICS FOR PRINCIPAL INDUSTRIAL COUNTIES, BY MAJOR INDUSTRY GROUP: 1954 AND 1947—Continued

(Principal industrial counties include all counties with 20,000 or more manufacturing employees. For explanation of column captions see Introduction)

Code	Major industry group	1954								1947	
		Establish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendit- ures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
		MAHONING COUNTY									
	All industries, total <sup>1</sup> ....	332	48,398	216,282	41,195	77,323	171,586	380,460	24,747	<sup>2</sup> 51,445	<sup>2</sup> 245,384
20	Food and kindred products....	60	1,832	7,575	927	1,893	3,163	11,258	548	1,439	6,704
23	Apparel and related products..	8	388	930	355	609	721	1,611	17	532	1,809
27	Printing and publishing.....	27	744	3,520	420	720	1,889	6,380	85	599	4,305
28	Chemicals and products.....	7	182	778	129	292	537	2,364	136	196	774
32	Stone, clay, & glass products.	33	2,192	7,530	1,988	3,396	6,309	10,768	130	2,042	(D)
33	Primary metal industries.....	30	26,611	120,804	23,799	44,424	102,016	206,388	9,833	29,750	140,572
34	Fabricated metal products....	62	4,545	21,661	3,613	6,671	15,729	43,590	948	4,978	28,109
35	Machinery, except electrical..	33	2,478	13,007	1,924	3,982	9,362	19,601	1,574	2,045	11,961
39	Miscellaneous manufactures <sup>3</sup> ...	18	567	2,228	453	904	1,511	3,324	116	207	549
		MONTGOMERY COUNTY									
	All industries, total <sup>1</sup> ....	716	94,593	452,345	76,191	153,096	341,478	724,749	47,010	<sup>2</sup> 93,668	<sup>2</sup> 487,755
20	Food and kindred products....	76	4,494	18,820	2,758	5,697	9,607	38,370	2,656	3,145	21,811
23	Apparel and related products..	13	230	586	181	339	331	797	22	396	1,428
24	Lumber and wood products.....	21	520	1,978	434	890	1,430	2,351	47	660	3,575
26	Pulp, paper and products.....	19	2,973	12,436	2,511	5,379	9,665	22,032	1,045	2,609	13,551
27	Printing and publishing.....	86	8,537	40,707	6,238	12,311	27,968	71,995	4,378	7,797	58,367
29	Petroleum and coal products...	5	202	846	85	196	296	1,604	18	(D)	(D)
32	Stone, clay, & glass products.	24	780	3,779	619	1,359	2,504	5,575	285	509	(D)
35	Machinery, except electrical..	195	42,710	216,118	35,916	72,312	172,590	307,651	21,537	(D)	(D)
		Stark County is coextensive with the Canton Standard Metropolitan Area. Data for this area are shown in Table 5.									
		Summit County is coextensive with the Akron Standard Metropolitan Area. Data for this area are shown in Table 5.									
		TRUMBULL COUNTY									
	All industries, total <sup>1</sup> ....	246	37,856	174,852	31,932	61,175	137,725	305,535	17,374	<sup>2</sup> 36,590	<sup>2</sup> 200,477
20	Food and kindred products....	26	466	1,489	276	570	838	3,450	119	213	852
24	Lumber and wood products.....	26	122	353	108	191	261	577	47	404	1,721
27	Printing and publishing.....	19	429	1,698	243	486	1,033	3,005	214	277	1,073
32	Stone, clay, & glass products.	20	820	3,300	710	1,350	2,679	6,781	246	825	(D)
33	Primary metal industries.....	25	20,077	91,764	17,431	32,442	74,527	152,807	11,206	17,723	98,173
34	Fabricated metal products....	52	5,658	25,374	4,674	9,001	18,950	43,122	2,226	3,911	24,874
36	Electrical machinery.....	10	2,406	10,633	1,959	3,835	7,668	27,756	1,055	(D)	(D)
37	Transportation equipment.....	7	4,285	22,702	3,576	7,245	18,519	37,089	791	(D)	(D)

D Withheld to avoid disclosing data for individual companies.

<sup>1</sup>In order to avoid disclosing data for individual companies, the statistics for some industry groups are not shown. Industry groups reporting less than 100 employees are also omitted. They are included, however, in the "All industries" line.<sup>2</sup>The 1954 and 1947 "All industries" totals are not strictly comparable because of differences in coverage of loggers and fluid milk distributors. See discussion in Introduction and footnote to Table 4 for comparable figures at the State level.<sup>3</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)



Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954

20 Food and kindred products	26 Pulp, paper and products	32 Stone, clay, and glass products	38 Instruments and related products
21 Tobacco manufactures	27 Printing and publishing	33 Primary metal industries	39 Miscellaneous manufactures (Includes Group 19)
22 Textile mill products	28 Chemicals and products	34 Fabricated metal products	Ordinance and accessories)
23 Apparel and related products	29 Petroleum and coal products	35 Machinery, except electrical	
24 Lumber and wood products	30 Rubber products	36 Electrical machinery	
25 Furniture and fixtures	31 Leather and leather goods	37 Transportation equipment	

(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Ohio, total.....	14,550	2,109	17	98	460	847	394	273	1,732	683	114	190	98	887	650	1,828	2,471	365	370	172	792
1 to 4 employees.....	4,761	640	7	20	137	536	139	34	757	227	28	31	31	283	81	506	803	71	73	63	294
5 to 9 employees.....	2,231	358	...	10	80	129	60	21	324	104	20	16	16	121	70	280	396	50	31	20	125
10 to 19 employees.....	2,074	346	2	10	63	66	62	22	252	90	17	22	8	123	91	289	405	33	41	27	105
20 to 49 employees.....	2,251	384	1	12	71	73	62	54	218	114	13	35	8	125	119	331	393	38	54	24	122
50 to 99 employees.....	1,201	182	1	11	42	29	32	38	82	62	4	24	9	92	85	178	162	48	39	17	64
100 to 249 employees.....	1,086	145	5	21	43	12	23	72	62	48	14	25	10	94	83	133	151	50	40	13	42
250 to 499 employees.....	492	37	1	11	19	2	8	20	17	26	12	17	9	29	53	64	75	28	34	5	25
500 to 999 employees.....	249	14	...	1	3	...	5	9	11	5	5	9	5	8	31	33	52	28	22	2	6
1,000 to 2,499 employees.....	150	3	...	2	2	...	2	2	8	6	1	6	2	10	22	12	27	15	21	1	8
2,500 employees and over.....	55	...	...	...	...	...	1	1	1	1	...	5	...	2	15	2	7	4	15	...	1
Adams:																					
1 to 19 employees.....	17	1	...	...	...	10	...	...	5	...	...	...	...	...	...	1	...	...	...	...	...
20 to 99 employees.....	2	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
100 employees and over.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Allen:																					
1 to 19 employees.....	85	15	...	...	2	4	2	...	14	4	1	...	...	5	3	10	17	2	2	1	3
20 to 99 employees.....	29	15	...	...	1	1	...	...	...	3	...	1	...	1	...	2	1	2	1	...	1
100 employees and over.....	22	1	3	1	...	...	...	...	1	...	1	...	...	...	1	4	3	2	3	...	1
Ashland:																					
1 to 19 employees.....	29	9	...	...	...	2	1	...	8	...	2	1	...	2	1	...	...	1	1	...	1
20 to 99 employees.....	12	4	...	...	...	...	...	...	1	...	...	2	...	1	1	1	1	...	...	...	1
100 employees and over.....	13	1	...	...	1	...	...	...	1	1	...	3	...	1	1	...	2	...	1	...	1
Ashtabula:																					
1 to 19 employees.....	106	19	...	1	2	37	2	...	8	...	...	2	1	3	2	10	10	2	1	1	5
20 to 99 employees.....	39	6	...	2	1	1	...	1	3	4	...	4	1	2	1	3	3	1	2	...	4
100 employees and over.....	21	...	...	...	...	...	...	2	...	1	...	...	2	...	2	4	1	5	3	...	1
Athens:																					
1 to 19 employees.....	32	6	...	...	1	14	...	...	5	1	...	...	...	2	...	...	1	...	2	...	...
20 to 99 employees.....	6	2	...	...	...	...	...	...	2	...	...	...	...	1	...	1	...	...	...	...	...
100 employees and over.....	3	...	...	...	...	...	...	...	1	...	...	...	1	...	...	...	1	...	...	...	...
Auglaize:																					
1 to 19 employees.....	33	11	...	1	...	1	1	...	8	...	...	1	...	2	...	5	3	...	...	...	...
20 to 99 employees.....	16	3	...	1	1	3	...	...	1	1	...	2	...	...	...	2	1	...	1	...	...
100 employees and over.....	10	1	...	1	...	...	...	1	...	...	...	1	...	...	2	...	3	1	...	...	...
Belmont:																					
1 to 19 employees.....	61	19	...	...	1	7	...	...	9	2	...	...	...	8	2	6	3	1	...	...	3
20 to 99 employees.....	15	4	...	...	2	1	...	...	1	...	...	...	...	2	1	...	2	...	...	...	2
100 employees and over.....	10	1	...	...	2	...	...	...	...	...	...	...	...	2	1	2	1	...	...	...	1
Brown:																					
1 to 19 employees.....	16	3	...	...	1	7	...	...	2	...	...	...	2	1	...	...	...	...	...	...	...
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...
Butler:																					
1 to 19 employees.....	91	18	...	...	1	2	...	...	18	2	1	1	...	3	2	15	19	...	3	1	5
20 to 99 employees.....	38	9	...	...	...	...	1	5	2	2	...	...	...	3	7	2	3	...	3	...	1
100 employees and over.....	53	2	...	2	1	1	1	14	3	...	2	...	...	...	4	7	10	1	4	...	1
Carroll:																					
1 to 19 employees.....	12	3	...	...	...	5	...	...	1	1	...	...	...	...	1	...	1	...	...	...	...
20 to 99 employees.....	10	1	...	...	...	...	...	...	1	1	...	...	...	6	...	1	...	...	...	...	...
100 employees and over.....	6	...	...	...	...	...	...	1	...	...	...	1	...	3	...	...	...	1	...	...	...
Champaign:																					
1 to 19 employees.....	17	8	...	1	...	1	...	...	2	2	...	...	...	...	...	...	3	...	...	...	...
20 to 99 employees.....	7	2	...	...	...	...	...	...	1	...	...	...	...	...	...	...	3	1	...	...	...
100 employees and over.....	5	...	...	...	...	...	...	2	...	...	...	...	...	...	...	1	...	1	...	...	...
Clark:																					
1 to 19 employees.....	118	15	...	...	4	3	1	1	16	4	...	1	1	6	4	21	28	...	2	...	11
20 to 99 employees.....	57	7	...	...	2	4	2	1	2	1	...	...	2	5	2	5	17	1	3	1	2
100 employees and over.....	26	2	...	...	...	...	...	1	2	...	...	...	...	...	1	2	10	1	2	2	3
Clermont:																					
1 to 19 employees.....	21	5	...	...	...	4	...	...	4	...	...	1	...	3	...	...	3	...	...	1	...
20 to 99 employees.....	7	...	...	1	1	1	2	...	...	...	...	...	...	1	...	...	1	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Clinton:																					
1 to 19 employees.....	39	8	...	...	1	4	1	...	2	...	1	1	1	1	3	3	7	1	1	...	4
20 to 99 employees.....	13	2	...	...	...	...	...	...	2	...	...	...	...	...	1	5	3	...	...	...	...
100 employees and over.....	4	...	...	...	...	...	...	...	...	...	...	...	...	...	1	2	1	...	...	...	...
Columbiana:																					
1 to 19 employees.....	115	15	...	...	1	14	2	1	15	7	1	...	...	19	5	8	22	...	1	1	3
20 to 99 employees.....	47	4	...	...	...	...	2	2	5	...	...	...	...	11	4	4	13	1	1	...	...
100 employees and over.....	26	1	...	...	...	...	4	1	...	...	...	...	...	10	1	4	5	...	...	...	...
Coshocton:																					
1 to 19 employees.....	53	9	...	1	2	18	1	1	8	2	...	...	3	2	1	...	4	...	...	...	1
20 to 99 employees.....	13	1	...	1	...	...	...	2	5	...	...	...	...	1	...	1	...	1	...	...	1
100 employees and over.....	12	...	...	...	1	...	...	1	1	...	...	2	...	1	1	3	...	...	...	...	2
Crawford:																					
1 to 19 employees.....	56	11	...	1	1	5	3	...	6	...	2	...	...	3	3	5	12	2	...	...	2
20 to 99 employees.....	17	1	...	...	1	...	...	...	2	...	...	...	...	3	2	1	4	...	...	...	2
100 employees and over.....	18	...	...	...	2	...	...	...	...	...	...	1	...	...	1	...	8	3	3	...	...



Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954—Continued  
(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Huron:																					
1 to 19 employees.....	50	10	...	1	2	4	2	...	11	3	...	...	...	5	1	3	4	...	1	...	3
20 to 99 employees.....	28	6	...	1	...	...	1	1	2	1	...	3	...	1	2	2	3	1	2	...	2
100 employees and over.....	7	1	...	...	2	...	1	...	...	...	...	1	...	...	...	...	2	...	...	...	...
Jackson:																					
1 to 19 employees.....	34	7	...	...	...	11	...	...	4	2	...	1	...	3	3	1	1	...	...	...	1
20 to 99 employees.....	9	2	...	...	...	...	...	...	...	...	...	...	...	6	1	...	...	...	...	...	...
100 employees and over.....	8	...	...	...	2	...	1	...	...	...	...	...	...	1	3	...	1	...	...	...	...
Jefferson:																					
1 to 19 employees.....	49	18	...	...	1	7	1	1	6	4	...	...	1	5	...	2	1	1	...	...	...
20 to 99 employees.....	21	6	...	...	...	1	...	2	...	...	...	...	...	7	1	2	1	1	...	...	...
100 employees and over.....	13	...	...	...	...	...	...	1	1	...	...	...	...	4	5	2	...	...	...	...	...
Knox:																					
1 to 19 employees.....	33	6	...	...	...	11	...	...	6	4	1	...	...	...	...	2	1	2	...	...	...
20 to 99 employees.....	5	1	...	...	1	...	...	...	1	...	...	...	...	...	...	1	1	...	...	...	...
100 employees and over.....	5	...	...	...	...	...	...	1	...	...	...	...	...	2	...	1	1	...	...	...	...
Lake:																					
1 to 19 employees.....	106	7	...	1	...	7	2	1	11	4	...	1	...	4	1	21	33	2	4	2	5
20 to 99 employees.....	40	2	...	1	1	...	1	...	4	7	...	3	...	1	3	3	11	...	2	...	1
100 employees and over.....	15	...	...	1	...	...	...	...	...	6	1	1	...	1	...	...	3	1	1	...	...
Lawrence:																					
1 to 19 employees.....	24	7	...	...	...	8	...	...	2	1	...	...	...	3	1	1	1	...	...	...	...
20 to 99 employees.....	10	...	...	...	...	...	...	...	1	...	...	...	...	3	1	2	2	...	1	...	...
100 employees and over.....	10	...	...	...	...	...	...	...	...	2	1	1	...	4	1	...	...	...	...	...	1
Licking:																					
1 to 19 employees.....	69	13	1	...	1	12	1	1	8	3	1	1	...	7	2	6	4	1	...	1	6
20 to 99 employees.....	14	4	...	...	1	1	...	...	...	...	1	1	...	1	...	3	...	...	...	...	2
100 employees and over.....	14	...	...	...	...	1	...	1	1	...	1	...	...	3	1	2	1	1	1	...	1
Logan:																					
1 to 19 employees.....	23	8	...	...	...	1	1	...	3	...	...	...	1	3	1	2	2	...	...	...	1
20 to 99 employees.....	12	6	...	...	...	...	...	1	1	...	...	...	...	...	2	...	1	...	1	...	...
100 employees and over.....	7	...	...	...	...	...	...	...	1	...	...	...	...	...	...	1	2	2	1	...	...
Lorain:																					
1 to 19 employees.....	151	36	...	1	...	4	2	...	16	5	...	...	...	8	5	28	28	5	2	1	10
20 to 99 employees.....	43	8	...	...	1	1	...	1	2	2	...	...	...	2	2	13	7	...	1	...	3
100 employees and over.....	41	...	...	1	1	...	...	...	2	2	1	...	...	...	8	11	4	2	6	...	3
Lucas:																					
1 to 19 employees.....	450	41	1	...	14	15	12	7	71	27	2	4	1	22	10	67	92	11	12	6	35
20 to 99 employees.....	159	26	...	...	6	6	4	2	13	10	...	3	...	7	12	27	22	3	6	4	8
100 employees and over.....	102	16	1	3	2	2	1	6	3	4	6	1	...	4	9	14	17	3	7	...	3
Madison:																					
1 to 19 employees.....	10	4	...	...	...	1	...	...	2	1	...	...	...	1	...	...	...	...	...	...	1
20 to 99 employees.....	3	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	...	...	...	1	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
Mahoning:																					
1 to 19 employees.....	204	38	...	...	5	9	7	...	21	3	...	4	2	24	6	39	22	4	2	4	14
20 to 99 employees.....	76	18	...	...	1	2	4	3	5	4	...	...	...	3	8	19	6	...	1	...	2
100 employees and over.....	52	4	...	...	2	...	1	...	1	...	3	1	...	6	16	4	5	3	4	...	2
Marion:																					
1 to 19 employees.....	40	12	...	1	...	3	...	...	5	2	1	1	...	3	4	1	6	...	...	...	1
20 to 99 employees.....	17	3	...	...	...	1	...	...	...	2	...	1	...	1	3	2	3	...	1	...	...
100 employees and over.....	15	1	...	...	...	...	...	...	1	1	...	1	...	...	3	...	5	...	3	...	...
Medina:																					
1 to 19 employees.....	50	9	...	...	1	4	...	...	7	1	1	...	...	6	1	5	12	1	1	...	1
20 to 99 employees.....	12	2	...	...	...	3	...	...	...	...	...	...	...	1	1	3	1	...	...	1	...
100 employees and over.....	8	1	...	...	...	...	...	...	...	...	...	1	...	...	2	1	1	...	...	...	2
Meigs:																					
1 to 19 employees.....	15	3	...	...	...	6	...	...	2	2	...	...	...	...	...	1	1	...	...	...	...
20 to 99 employees.....	3	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	...	...
100 employees and over.....	2	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...
Mercer:																					
1 to 19 employees.....	38	7	...	...	2	5	3	...	5	4	1	...	...	3	...	1	6	...	1	...	...
20 to 99 employees.....	11	6	...	...	...	...	...	...	1	...	...	...	...	...	1	1	2	...	...	...	...
100 employees and over.....	5	...	...	...	1	...	2	...	1	...	...	...	...	...	...	...	1	...	...	...	...
Miami:																					
1 to 19 employees.....	63	17	...	...	1	3	1	2	7	1	...	...	...	5	4	8	11	...	...	...	3
20 to 99 employees.....	43	11	...	...	...	3	1	2	3	1	...	...	...	2	3	1	10	2	3	...	1
100 employees and over.....	21	2	...	3	...	1	1	3	...	...	...	...	...	...	1	1	3	2	3	...	1
Monroe:																					
1 to 19 employees.....	14	1	...	...	...	9	...	...	2	...	...	...	...	2	...	...	...	...	...	...	...
Montgomery:																					
1 to 19 employees.....	447	42	...	1	10	14	15	3	59	22	3	2	...	18	14	54	121	10	15	11	33
20 to 99 employees.....	179	20	...	1	2	6	2	7	16	10	1	...	...	3	14	20	56	3	6	1	11
100 employees and over.....	90	14	...	...	1	1	1	9	11	3	1	5	...	3	4	2	18	7	6	...	4
Morgan:																					
1 to 19 employees.....	14	1	...	...	...	9	1	...	2	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	2	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...
100 employees and over.....	3	...	...	...	...	1	...	...	...	1	...	...	...	...	...	...	1	...	...	...	...
Morrow:																					
1 to 19 employees.....	16	3	...	...	...	4	...	1	2	1	1	...	...	1	...	...	1	1	1	...	...
100 employees and over.....	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	...	...
Muskingum:																					
1 to 19 employees.....	65	14	...	...	1	14	2	...	6	...	1	...	...	13	2	3	4	...	...	1	4
20 to 99 employees.....	18	5	...	...	...	...	...	2	...	...	...	...	...	5	1	...	2	...	...	...	3
100 employees and over.....	21	1	...	1	1	...	...	1	1	...	...	...	...	8	2	1	2	3	...	...	...



## MANUFACTURES--AREA STATISTICS

Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954—Continued  
(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Noble:																					
1 to 19 employees.....	7	2	...	...	...	4	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	3	1	...	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
Ottawa:																					
1 to 19 employees.....	46	15	...	...	...	3	...	...	6	...	...	...	...	5	1	1	10	1	3	1	...
20 to 99 employees.....	12	3	...	...	...	1	1	...	2	...	...	...	...	1	1	1	2	...	...	...	...
100 employees and over.....	9	...	...	...	...	...	...	1	...	...	...	...	...	5	...	1	...	...	1	...	1
Paulding:																					
1 to 19 employees.....	13	2	...	...	...	1	...	...	7	...	...	...	...	2	...	1	...	...	...	...	...
20 to 99 employees.....	6	1	...	...	1	...	1	...	...	...	...	1	...	2	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	1	...	...
Perry:																					
1 to 19 employees.....	15	4	...	...	...	7	...	...	2	1	...	...	...	...	...	...	1	...	...	...	...
20 to 99 employees.....	12	1	...	...	...	...	...	...	1	...	...	...	...	9	...	...	1	...	...	...	...
100 employees and over.....	6	...	...	...	...	...	...	...	...	...	...	...	...	5	...	...	1	...	...	...	...
Pickaway:																					
1 to 19 employees.....	18	9	...	...	1	1	...	...	4	...	...	...	...	...	...	1	...	...	...	...	2
20 to 99 employees.....	7	5	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...
100 employees and over.....	6	2	...	...	...	...	...	1	...	1	...	...	...	...	...	...	...	1	...	...	1
Pike:																					
1 to 19 employees.....	22	1	...	...	...	16	...	...	2	...	...	...	...	2	...	...	1	...	...	...	...
20 to 99 employees.....	2	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
Portage:																					
1 to 19 employees.....	63	9	...	...	1	8	3	...	6	1	...	3	...	3	1	7	16	...	...	...	5
20 to 99 employees.....	31	2	...	1	...	...	3	...	2	1	...	3	...	3	...	3	8	...	1	...	4
100 employees and over.....	17	...	...	2	...	...	...	...	...	1	...	2	...	2	1	1	2	1	2	...	3
Preble:																					
1 to 19 employees.....	25	5	...	...	2	4	...	...	3	1	...	1	...	4	...	...	2	1	2	...	...
20 to 99 employees.....	11	...	...	...	2	2	...	1	...	...	...	...	...	...	...	1	3	...	...	...	2
Putnam:																					
1 to 19 employees.....	28	10	...	...	...	2	...	...	7	...	...	...	...	7	...	...	1	...	1	...	...
20 to 99 employees.....	3	2	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	4	1	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	1	...	...	...
Richland:																					
1 to 19 employees.....	102	24	...	...	3	9	4	1	14	5	...	...	...	7	5	14	10	1	1	2	2
20 to 99 employees.....	34	6	...	...	...	1	1	1	1	1	...	1	...	4	...	7	8	2	1	...	...
100 employees and over.....	27	1	...	1	...	...	1	1	2	...	...	1	...	...	2	4	3	6	2	2	1
Ross:																					
1 to 19 employees.....	32	6	...	...	1	12	2	...	3	2	1	...	...	4	...	...	...	...	...	...	1
20 to 99 employees.....	5	3	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	6	...	...	...	...	...	...	4	...	...	...	...	1	...	...	1	...	...	...	...	...
Sandusky:																					
1 to 19 employees.....	59	13	...	...	1	3	...	1	7	4	...	...	...	3	1	10	9	3	...	1	3
20 to 99 employees.....	27	6	...	...	1	...	...	1	1	...	...	1	...	4	1	4	3	...	1	1	3
100 employees and over.....	21	3	...	...	2	...	...	...	...	...	...	...	1	...	6	2	2	3	...	...	...
Scioto:																					
1 to 19 employees.....	46	8	...	...	...	20	...	...	3	2	...	...	...	6	...	1	4	...	1	...	1
20 to 99 employees.....	18	10	...	...	...	1	...	1	...	...	...	...	...	3	1	...	...	...	...	...	2
100 employees and over.....	14	...	...	1	...	...	...	...	1	...	1	...	4	3	3	...	...	...	1	...	...
Seneca:																					
1 to 19 employees.....	61	11	...	...	1	6	1	1	7	2	2	...	...	7	4	3	7	3	1	1	4
20 to 99 employees.....	20	2	...	...	...	1	2	...	2	1	...	1	...	2	3	2	4	...	...	...	...
100 employees and over.....	15	...	...	...	...	...	...	...	1	...	...	...	...	4	1	...	4	4	1	...	...
Shelby:																					
1 to 19 employees.....	33	7	...	1	...	4	...	...	3	...	2	1	...	3	3	4	4	...	...	...	1
20 to 99 employees.....	20	2	...	...	1	...	...	...	1	...	...	...	1	...	3	...	7	...	5	...	...
100 employees and over.....	7	...	...	...	...	...	...	...	...	...	...	...	...	...	2	1	4	...	...	...	...
Stark:																					
1 to 19 employees.....	273	56	...	...	7	8	5	2	39	12	2	1	...	20	11	32	54	5	3	2	14
20 to 99 employees.....	102	23	...	1	3	2	3	5	7	7	1	4	...	7	4	17	11	1	...	...	6
100 employees and over.....	81	8	...	1	...	1	2	1	3	...	3	4	...	8	20	12	13	2	1	1	1
Summit:																					
1 to 19 employees.....	446	44	...	2	11	14	7	3	64	15	1	14	2	22	14	53	123	9	7	3	38
20 to 99 employees.....	147	22	...	...	2	3	2	8	16	2	...	15	...	4	7	18	30	4	2	5	7
100 employees and over.....	76	7	...	...	...	1	1	2	1	5	...	18	...	4	2	10	18	...	2	1	4
Trumbull:																					
1 to 19 employees.....	136	18	...	...	3	25	4	...	13	4	1	...	...	14	2	18	23	3	2	2	4
20 to 99 employees.....	55	7	...	...	...	1	1	...	5	2	...	...	...	3	7	20	6	1	1	1	...
100 employees and over.....	55	1	...	...	...	...	...	...	1	...	1	1	1	3	16	14	6	6	4	...	1
Tuscarawas:																					
1 to 19 employees.....	91	21	1	1	2	17	3	...	9	1	1	...	1	10	...	6	13	1	...	2	2
20 to 99 employees.....	31	7	...	...	1	...	...	...	3	...	...	1	...	12	1	1	2	1	...	...	2
100 employees and over.....	33	...	...	...	...	1	...	1	...	1	...	...	...	16	4	4	5	1	...	...	...
Union:																					
1 to 19 employees.....	19	7	...	...	...	1	1	...	1	1	...	...	...	1	1	1	2	...	1	1	1
20 to 99 employees.....	3	...	...	...	...	...	...	...	1	...	...	...	...	1	1	...	...	...	...	...	...
100 employees and over.....	3	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1	...
Van Wert:																					
1 to 19 employees.....	29	10	...	...	...	2	1	...	3	1	...	...	...	3	...	4	4	...	...	...	1
20 to 99 employees.....	3	...	...	...	...	...	...	...	1	1	...	...	...	...	...	1	...	...	...	...	...
100 employees and over.....	7	1	1	...	1	...	...	1	...	...	...	...	1	...	...	1	1	...	...	...	...
Vinton:																					
1 to 19 employees.....	32	1	...	...	...	26	...	...	1	...	...	...	...	...	...	3	1	...	...	...	...
20 to 99 employees.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	...	...	...	...	...	1	...	...	...	1	...	...	...	...	...	...</	

Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954—Continued  
(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establish- ments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Warren:																					
1 to 19 employees.....	22	2	...	...	...	3	...	2	3	1	...	1	...	1	1	4	4	...	...	...	...
20 to 99 employees.....	10	2	...	1	...	...	...	2	1	1	...	...	...	...	...	1	1	...	1	...	...
100 employees and over.....	8	...	...	...	...	...	...	3	...	...	1	...	1	...	...	2	1	...	...	...	...
Washington:																					
1 to 19 employees.....	42	3	...	...	...	14	...	...	4	6	1	...	2	6	2	1	1	...	...	1	1
20 to 99 employees.....	14	3	...	...	...	2	...	...	2	2	...	1	...	1	...	1	1	...	...	...	1
100 employees and over.....	10	1	...	...	...	...	2	...	...	2	...	...	...	1	1	1	1	...	...	...	1
Wayne:																					
1 to 19 employees.....	57	18	...	...	1	4	1	1	8	2	...	2	...	5	...	3	5	...	4	...	3
20 to 99 employees.....	36	8	...	...	...	4	2	1	1	1	...	...	...	4	1	5	3	1	2	2	1
100 employees and over.....	18	3	...	...	...	1	...	3	...	1	...	1	...	1	2	3	...	...	2	...	1
Williams:																					
1 to 19 employees.....	49	19	...	...	2	4	2	...	8	1	1	...	...	4	2	2	3	...	1	...	...
20 to 99 employees.....	16	1	...	...	...	2	1	...	...	1	...	...	...	...	...	4	1	1	3	...	2
100 employees and over.....	6	1	...	...	...	...	1	...	...	...	...	...	...	...	...	1	1	...	1	...	1
Wood:																					
1 to 19 employees.....	64	14	...	...	...	5	...	...	7	3	1	...	...	10	2	4	15	2	1	...	...
20 to 99 employees.....	23	10	...	...	...	...	...	...	1	3	...	3	...	1	1	3	...	...	...	1	...
100 employees and over.....	6	2	...	...	...	...	...	...	...	...	...	...	...	3	...	1	...	...	...	...	...
Wyandot:																					
1 to 19 employees.....	21	4	...	...	...	5	...	...	3	3	...	...	...	2	...	...	2	...	...	...	2
20 to 99 employees.....	12	3	...	...	...	1	...	...	...	...	...	...	...	2	...	1	1	1	...	...	3
100 employees and over.....	2	...	...	...	...	...	...	...	...	...	...	1	...	1	...	...	...	...	...	...	...









WARD METROPOLITAN AREAS

CODE

103 OKLAHOMA CITY

154 TULSA

LEGEND

CITY

CODE	
103	OKLAHOMA CITY
154	TULSA

● PLACES OF 25,000 TO 100,000 (1950)  
★ PLACES OF 100,000 AND OVER (1950)  
STANDARD METROPOLITAN AREAS



## MANUFACTURES—AREA STATISTICS

Table 1.—MANUFACTURING EMPLOYMENT AT OPERATING ESTABLISHMENTS AND CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARIES FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS

(This table includes data for all manufacturing employees including those located in central administrative offices and auxiliaries. Tables 2-7 in this report include data for operating establishments only. For explanation of column captions see Introduction)

State, standard metropolitan areas, and year <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	(Number)	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
Oklahoma:						
1954.....	89,257	363,627	79,851	307,902	9,406	55,725
1953 <sup>2</sup> .....	86,256	337,352	77,455	291,280	8,801	46,072
1952 <sup>2</sup> .....	77,222	266,783	72,172	243,191	<sup>3</sup> 5,050	<sup>3</sup> 23,592
1951 <sup>2</sup> .....	69,122	229,371	64,072	205,779	5,050	23,592
1950 <sup>2</sup> .....	63,494	187,657	58,062	163,185	5,432	24,472
1949 <sup>2</sup> .....	63,329	184,525	57,365	158,585	5,964	25,940
1954						
Standard metropolitan areas:						
Oklahoma City <sup>4</sup> .....	16,343	63,321	15,899	60,893	444	2,428
Tulsa <sup>5</sup> .....	30,390	132,683	28,895	124,413	1,495	8,270

<sup>1</sup>Employment data for administrative offices and auxiliaries on a State basis are not available for the years prior to 1949. Similar data for standard metropolitan areas are available only for 1954.<sup>2</sup>The employment figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period. The employment figures for administrative and auxiliary units were compiled chiefly from Bureau of Old-Age and Survivors Insurance records and are not strictly comparable with the figures for these units that were collected by the Bureau of the Census for the year 1954.<sup>3</sup>The 1951 data are shown for 1952 as auxiliary and administrative unit data were not collected in 1952.<sup>4</sup>The Oklahoma City Standard Metropolitan Area consists of Oklahoma County, Oklahoma.<sup>5</sup>The Tulsa Standard Metropolitan Area consists of Tulsa County, Oklahoma.

Table 2.—GENERAL STATISTICS FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Year	Establish- ments, number	All employees		Production workers		Value added by manufacture (\$1,000)	
		Number	Payroll (\$1,000)	Number	Wages (\$1,000)		
OKLAHOMA							
1954 <sup>1</sup> .....	2,131   (NA)	{	79,851	307,902	60,572	212,183	580,633
1953 <sup>2</sup> .....			77,455	291,280	60,089	209,819	553,816
1952 <sup>2</sup> .....			72,172	243,191	57,718	178,588	493,379
1951 <sup>2</sup> .....			64,072	205,779	51,244	150,809	433,706
1950 <sup>2</sup> .....			58,062	187,657	45,271	126,065	344,037
1949 <sup>2</sup> .....	1,740    1,530	{	57,365	158,585	45,690	116,765	300,775
1947.....			55,441	143,634	44,349	105,327	341,149
1939.....			37,585	47,170	27,642	29,957	101,782
1937.....			35,593	46,456	29,551	34,390	110,618
1935.....			29,655	34,643	24,349	24,521	77,418
1933.....	1,155	(NA)	(NA)	22,504	20,747	65,988	
1931.....	1,322	(NA)	(NA)	22,576	26,271	68,373	
1929.....	1,658	38,638	57,604	31,695	41,277	149,404	
1927.....	1,373	{	(NA)	{	27,932	35,785	102,300
1925.....	1,282				(NA)	26,333	34,211
1923.....	1,242	{		{	25,489	33,069	84,946
1921.....	1,398				22,241	29,532	79,961
1919.....	2,316				29,048	34,423	87,551
1914.....	2,502				17,399	10,982	30,955
1909.....	2,310				9,285	13,143	7,240
1904.....	1,123	6,269	3,518	5,456	2,799	8,065	
1899.....	495	2,650	1,113	2,381	894	2,703	
STANDARD METROPOLITAN AREAS (None with 40,000 or more manufacturing employees in this State)							

NA Not available.

<sup>1</sup>The 1954 figures include data for establishments engaged in the processing and distribution of fluid milk, Industry Group 202, Dairy Products. These establishments were not included in the figures for the Annual Survey years 1949-1953, or earlier Census years. In addition, the 1954 Census and Annual Survey years include data for Logging camps and contractors, Industry 2411, which were not included within the scope of the 1947 Census. See footnotes to Table 4 for comparable 1954 and 1947 totals. There were also a number of changes in the definition of manufacturing industries during earlier Census years that affect the comparability of the historical series. Among the more important of these were: figures for 1935 and later years exclude data for "Railroad repair shops" and "Manufactured gas" which were included in 1899-1933 figures; the minimum size of establishment included for 1954 and 1947 was one employee, for 1939-1921 manufacturing establishments reporting value of shipments of \$5,000 or more were within scope whereas for 1919 and earlier years the cutoff was \$500. (This change in procedure has not appreciably affected the comparability of the historical data except for the figures on number of establishments.)

<sup>2</sup>The employment and payroll figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period.

## MANUFACTURES--AREA STATISTICS

Table 3.--GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture	Capital expendi- tures, new	All employees, number	Value added by manu- facture
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
Oklahoma, total.....	2,233,351	2,131	79,851	307,902	60,572	122,530	212,183	580,633	51,740	( <sup>1</sup> )	( <sup>1</sup> )
STANDARD METROPOLITAN AREAS											
Oklahoma City.....	325,352	467	15,899	60,893	10,874	22,623	36,896	106,399	3,693	12,887	71,229
Tulsa.....	251,686	520	28,895	124,413	21,703	43,990	84,264	203,125	8,928	14,756	96,462
COUNTIES											
Adair.....	14,918	9	291	336	276	437	303	712	33	133	218
Alfalfa.....	10,699	8	44	105	32	63	65	181	8	203	800
Atoka.....	14,269	12	24	66	20	27	28	72	2	40	137
Beaver.....	7,411	3	62	(D)	57	(D)	(D)	(D)	(D)	(D)	(D)
Beckham.....	21,627	14	220	586	166	349	396	862	39	314	1,759
Blaine.....	15,049	8	361	1,380	282	676	1,014	5,082	182	399	3,486
Bryan.....	28,999	20	319	745	253	572	560	1,083	242	196	877
Caddo.....	34,913	11	284	(D)	258	(D)	(D)	(D)	(D)	318	(D)
Canadian.....	25,644	13	302	1,175	225	525	818	3,895	343	374	6,282
Carter.....	36,455	34	751	2,212	519	1,135	1,414	4,265	491	389	2,292
Cherokee.....	18,989	6	23	47	19	33	32	73	18	12	23
Choctaw.....	20,405	13	87	158	66	122	110	460	32	139	509
Cimarron.....	4,589	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Cleveland.....	41,443	15	292	963	151	367	415	1,768	172	133	468
Coal.....	8,056	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Comanche.....	55,165	34	670	2,108	385	868	1,102	4,635	431	460	(D)
Cotton.....	10,180	3	15	57	13	28	52	86	(D)	10	(D)
Craig.....	18,263	15	85	227	56	109	124	574	34	59	211
Creek.....	43,143	39	1,951	7,029	1,528	2,947	4,695	12,147	701	1,574	7,133
Custer.....	21,097	22	261	695	192	410	475	1,300	76	350	1,466
Delaware.....	14,734	5	18	25	16	26	21	56	...	15	46
Dewey.....	8,789	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	10	45
Ellis.....	7,326	4	10	24	6	19	15	88	11	13	(D)
Garfield.....	52,820	61	1,901	6,993	1,318	2,776	4,432	14,320	617	1,852	17,732
Garvin.....	29,500	15	265	(D)	249	(D)	(D)	(D)	(D)	237	1,454
Grady.....	34,872	38	516	1,429	389	825	962	3,950	204	438	1,760
Grant.....	10,461	7	35	114	28	54	85	245	39	102	(D)
Greer.....	11,749	10	78	198	58	119	130	321	86	73	256
Harmon.....	8,079	4	50	90	44	77	72	250	3	65	(D)
Harper.....	5,977	4	19	63	14	28	45	90	15	14	43
Haskell.....	13,313	4	14	23	9	19	17	53	...	18	54
Hughes.....	20,664	7	262	(D)	244	(D)	(D)	(D)	(D)	82	239
Jackson.....	20,082	15	225	523	172	331	326	996	95	248	1,117
Jefferson.....	11,122	4	10	23	7	13	18	41	4	14	69
Johnston.....	10,608	4	11	17	9	11	15	33	(D)	20	49
Kay.....	48,892	50	4,125	17,557	3,531	6,888	14,677	46,785	9,123	3,681	24,612
Kingfisher.....	12,860	5	47	89	34	56	60	165	14	147	(D)
Kiowa.....	18,926	13	157	364	134	240	299	679	56	112	442
Latimer.....	9,690	4	15	31	13	26	25	64	(D)	27	116
LeFlore.....	35,276	21	409	902	336	634	636	1,510	73	451	1,492
Lincoln.....	22,102	16	218	762	171	379	568	1,513	36	194	1,154
Logan.....	22,170	18	622	1,641	526	1,146	1,230	2,561	124	520	1,217
Love.....	7,721	3	10	14	7	10	11	35	(D)	(D)	(D)
McClain.....	14,681	7	49	112	43	76	92	216	11	18	75
McCurtain.....	31,588	32	669	1,648	594	1,343	1,401	2,493	215	992	3,481
McIntosh.....	17,829	5	6	8	5	4	6	23	...	12	58
Major.....	10,279	3	109	(D)	104	(D)	(D)	(D)	(D)	115	(D)
Marshall.....	8,177	8	209	318	193	316	283	869	14	(D)	(D)
Mayes.....	19,743	16	437	1,866	287	580	1,093	4,505	10,706	70	177
Murray.....	10,775	8	117	369	81	191	257	556	53	71	245
Muskogee.....	65,573	68	2,525	7,325	2,012	3,837	4,979	16,970	474	1,663	7,638
Noble.....	12,156	5	49	142	42	88	124	339	17	32	117
Nowata.....	12,734	10	120	404	99	200	303	606	50	92	456
Okfuskee.....	16,948	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	99	323
Oklahoma.....	325,352	467	15,899	60,893	10,874	22,623	36,896	106,399	3,693	12,887	71,229
Okmulgee.....	44,561	37	2,931	12,145	2,536	4,863	10,252	20,953	864	2,336	13,743
Osage.....	33,071	22	468	1,517	414	770	1,281	3,158	151	447	4,137
Ottawa.....	32,218	37	1,811	(D)	1,609	(D)	(D)	(D)	(D)	1,662	(D)
Pawnee.....	13,616	6	178	(D)	142	(D)	(D)	(D)	(D)	185	(D)
Payne.....	46,430	24	769	2,726	552	1,048	1,791	9,679	573	809	6,268



Table 3.--GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947--Continued  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
Pittsburg.....	41,031	26	910	2,034	766	1,197	1,455	4,228	85	400	2,019
Pontotoc.....	30,875	29	1,008	3,449	802	1,642	2,479	9,140	588	1,039	7,119
Pottawatomie.....	43,517	42	1,920	5,809	1,573	3,268	4,344	11,449	1,115	723	3,012
Pushmataha.....	12,001	14	106	214	94	174	182	374	26	116	222
Roger Mills.....	7,395	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5	14
Rogers.....	19,532	9	126	328	114	262	257	675	16	55	117
Seminole.....	40,672	25	335	1,000	263	522	647	1,927	54	242	775
Sequoyah.....	19,773	5	113	303	93	193	238	555	8	132	(D)
Stephens.....	34,071	20	2,403	10,548	1,667	3,189	6,741	17,207	6,697	997	5,109
Texas.....	14,235	10	84	324	62	162	230	480	23	178	(D)
Tillman.....	17,598	12	179	557	147	310	455	597	43	152	(D)
Tulsa.....	251,686	520	28,895	124,413	21,703	43,990	84,264	203,125	8,928	14,756	96,462
Wagoner.....	16,741	8	25	53	20	49	41	138	28	77	247
Washington.....	32,880	31	1,960	7,770	1,578	3,236	5,670	14,786	1,917	1,296	6,544
Washita.....	17,657	6	24	49	16	28	33	103	4	41	242
Woods.....	14,526	13	192	607	131	282	406	1,362	88	169	672
Woodward.....	14,383	9	109	290	91	177	207	585	22	103	296
CITIES WITH 10,000 INHAB- ITANTS OR MORE											
Ada.....	15,995	20	375	1,222	242	529	643	2,191	126	578	(D)
Ardmore.....	17,890	26	(D)	(D)	(D)	(D)	(D)	(D)	(D)	295	(D)
Bartlesville.....	19,228	21	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Chickasha.....	15,842	28	452	1,251	339	719	829	3,644	188	326	1,442
Duncan.....	15,325	13	1,883	(D)	1,218	(D)	(D)	(D)	(D)	(NA)	(NA)
Durant.....	10,541	14	239	564	184	439	402	907	194	(D)	(D)
El Reno.....	10,991	11	(D)	(D)	(D)	(D)	(D)	(D)	(D)	317	(D)
Enid.....	36,017	49	1,491	5,316	955	2,025	3,015	11,839	505	1,380	(D)
Guthrie.....	10,113	15	612	1,609	519	1,130	1,204	2,488	114	498	(D)
Lawton.....	34,757	31	618	(D)	344	(D)	(D)	(D)	(D)	448	(D)
McAlester.....	17,878	17	882	1,955	744	1,155	1,415	4,011	78	341	1,874
Miami.....	11,801	23	1,716	...	1,534	...	...	...	...	(NA)	(NA)
Midwest City.....	10,166	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Muskogee.....	37,289	53	1,800	5,577	1,399	2,824	3,668	13,447	358	1,333	(D)
Norman.....	27,006	11	243	836	124	306	352	1,498	167	(D)	(D)
Oklahoma City.....	243,504	426	10,966	41,154	7,409	15,054	23,864	79,304	2,773	8,180	48,996
Okmulgee.....	18,317	21	994	4,018	857	1,668	3,381	8,094	406	581	(D)
Ponca City.....	20,180	23	592	2,269	407	858	1,423	3,682	133	390	1,788
Sapulpa.....	13,031	17	616	2,458	501	1,027	1,708	5,254	270	188	764
Seminole.....	11,863	14	156	508	111	232	310	948	47	70	263
Shawnee.....	22,948	33	619	1,834	427	898	1,066	2,959	763	672	(D)
Stillwater.....	20,238	14	198	572	108	208	238	609	125	229	(D)
Tulsa.....	182,740	430	12,682	51,974	8,856	17,894	31,511	92,319	3,659	7,940	43,685

D Withheld to avoid disclosing figures for individual companies.

NA Not available

<sup>1</sup>The 1947 data are not strictly comparable with the figures shown for 1954 due to differences in coverage of loggers and fluid milk distributors.  
See discussion in Introduction and footnotes to Table 4.

## MANUFACTURES—AREA STATISTICS

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manufacture	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
	All industries, total <sup>1</sup> .....	2,131	524	79,851	307,902	60,572	122,530	212,183	580,633	( <sup>2</sup> )	51,740	( <sup>3</sup> )	( <sup>3</sup> )
20	Food and kindred products..	593	147	15,655	52,014	10,071	21,464	28,445	98,434	( <sup>2</sup> )	6,145	( <sup>3</sup> )	( <sup>3</sup> )
201	Meat products.....	74	21	4,228	15,412	3,124	6,761	10,465	22,405	( <sup>2</sup> )	799	4,121	16,601
2011	Meat packing, plants.....	37	13	3,421	13,471	2,460	5,476	8,985	18,256	( <sup>2</sup> )	660	3,575	14,297
2013	Prepared meats.....	12	2	166	507	128	251	351	1,626	( <sup>2</sup> )	60	165	1,205
2015	Poultry and dressing, plants...	25	6	640	1,433	535	1,034	1,128	2,522	15,741	77	381	1,099
202	Dairy products.....	94	33	3,112	10,311	1,499	3,495	4,210	21,330	( <sup>2</sup> )	1,947	( <sup>3</sup> )	( <sup>3</sup> )
2021	Creamery butter.....	13	5	422	1,203	271	588	633	2,838	15,655	205	( <sup>3</sup> )	( <sup>3</sup> )
2024	Ice cream and ices.....	10	4	179	554	107	230	281	1,320	2,830	105	( <sup>3</sup> )	( <sup>3</sup> )
2027	Fluid milk and other products..	51	21	2,317	8,012	961	2,297	2,870	16,201	44,127	1,562	( <sup>3</sup> )	( <sup>3</sup> )
203	Canned and frozen foods.....	22	11	845	1,294	780	1,200	1,039	2,568	( <sup>2</sup> )	132	477	1,488
2033	Canned fruits and vegetables...	13	9	734	1,147	679	1,078	920	2,192	12,512	112	424	(D)
204	Grain mill products.....	59	24	1,876	7,179	1,307	3,019	4,364	18,167	( <sup>2</sup> )	1,835	2,520	23,473
205	Bakery products.....	112	29	2,756	9,758	1,566	3,273	4,399	15,551	( <sup>2</sup> )	(D)	2,576	11,378
2051	Bread and related products....	109	28	2,683	9,622	1,501	3,157	4,292	15,328	30,331	741	2,250	(D)
207	Candy and related products...	14	2	257	574	215	450	433	847	2,295	18	329	1,347
2071	Confectionery products.....	14	2	257	574	215	450	433	847	2,295	18	329	1,347
208	Beverages.....	102	14	1,409	4,125	713	1,466	1,481	9,060	( <sup>2</sup> )	364	1,219	6,533
209	Miscellaneous foods.....	116	13	1,169	3,361	864	1,797	2,050	8,504	( <sup>2</sup> )	(D)	2,096	9,990
2099	Food preparations, n.e.c.....	40	8	581	1,744	469	929	1,015	5,300	21,962	182	(D)	(D)
22	Textile mill products.....	3	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
23	Apparel and related products.....	55	23	2,368	4,529	2,210	3,614	3,830	10,204	( <sup>2</sup> )	85	855	2,466
232	Men's and boys' furnishings..	11	9	773	1,451	720	1,280	1,194	3,321	( <sup>2</sup> )	34	509	1,272
233	Women's and misses' outerwear	6	2	103	201	97	167	178	238	( <sup>2</sup> )	(D)	(D)	(D)
238	Miscellaneous apparel.....	6	3	124	309	98	188	173	537	( <sup>2</sup> )	11	(D)	(D)
239	Fabricated textiles, n.e.c....	23	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2394	Canvas products.....	14	1	110	247	88	147	168	520	1,048	(D)	120	417
24	Lumber and wood products...	147	21	1,929	5,085	1,662	3,292	3,814	7,758	( <sup>2</sup> )	332	( <sup>3</sup> )	( <sup>3</sup> )
242	Lumber and basic products....	73	8	899	2,126	818	1,751	1,816	3,164	6,311	241	(D)	(D)
2421	Sawmills and planing mills....	73	8	899	2,126	818	1,751	1,816	3,164	6,311	241	589	1,646
243	Millwork and related products	35	9	574	1,909	466	811	1,193	2,644	( <sup>2</sup> )	43	1,094	4,099
249	Miscellaneous wood products..	21	3	352	844	291	579	630	1,386	( <sup>2</sup> )	34	(D)	(D)
2491	Wood preserving.....	9	3	272	684	219	444	501	1,109	4,096	31	327	(D)
25	Furniture and fixtures.....	91	12	1,620	5,185	1,352	2,881	3,654	9,511	( <sup>2</sup> )	312	1,219	4,331
251	Household furniture.....	46	7	867	2,340	775	1,622	1,810	3,678	( <sup>2</sup> )	136	667	1,478
2511	Wood furniture, not upholstered	15	4	659	1,774	605	1,326	1,455	2,707	5,551	81	462	(D)
2515	Mattresses and bedsprings.....	2	2	114	314	90	127	155	516	1,330	1	135	475
256	Screens, shades and blinds...	18	1	564	2,274	424	956	1,385	5,054	( <sup>2</sup> )	153	399	2,462
26	Pulp, paper and products...	9	7	561	2,441	412	905	1,787	6,080	( <sup>2</sup> )	846	382	1,994
27	Printing and publishing....	380	47	5,732	21,209	3,451	6,596	12,064	39,958	( <sup>2</sup> )	1,442	5,041	27,509
2711	Newspapers.....	181	25	3,669	13,350	2,068	3,911	7,262	25,647	35,010	780	3,127	17,161
2721	Periodicals.....	10	1	263	1,327	143	230	484	3,412	3,903	16	212	1,698
273	Books.....	9	2	195	795	110	230	380	1,336	( <sup>2</sup> )	97	153	1,059
2751	Commercial printing.....	119	10	940	3,444	710	1,437	2,502	5,490	8,769	390	1,062	4,366
2761	Lithographing.....	25	3	336	1,098	218	440	787	2,047	3,319	101	243	1,534
279	Printing trade services.....	21	3	166	747	120	223	501	1,151	( <sup>2</sup> )	27	116	791
28	Chemicals and products.....	79	26	1,561	5,547	1,106	2,173	3,236	10,553	( <sup>2</sup> )	13,765	1,589	12,127
281	Inorganic chemicals.....	7	4	293	1,224	155	264	462	1,146	( <sup>2</sup> )	9,917	(D)	(D)
287	Fertilizers.....	6	2	139	519	111	247	364	1,023	( <sup>2</sup> )	135	...	...
288	Vegetable and animal oils....	18	11	486	1,259	421	860	986	3,710	( <sup>2</sup> )	262	848	5,283
2881	Cottonseed oil mills.....	9	8	327	815	292	583	652	2,618	10,155	183	621	3,998
289	Chemical products, n.e.c.....	29	6	303	1,202	207	379	685	2,686	( <sup>2</sup> )	3,343	291	2,705
2896	Compressed and liquefied gases.	7	4	143	510	91	156	276	1,083	1,348	(D)	(D)	(D)
29	Petroleum and coal products	38	26	7,221	32,686	6,113	11,593	26,268	98,931	( <sup>2</sup> )	17,616	7,489	79,875
2911	Petroleum refining.....	28	21	6,897	31,392	5,888	11,139	25,518	96,396	493,200	17,564	7,192	77,572
30	Rubber products.....	8	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1,180	(D)
3099	Rubber industries, n.e.c.....	7	1	145	436	125	242	329	1,168	2,351	54	(D)	(D)
31	Leather and leather goods..	11	3	211	452	197	408	369	849	( <sup>2</sup> )	26	17	44
32	Stone, clay and glass products.....	87	34	5,847	21,589	5,090	10,224	17,717	48,451	( <sup>2</sup> )	3,312	4,373	23,411
322	Pressed and blown glass.....	10	8	2,279	7,550	1,980	3,815	5,948	16,061	( <sup>2</sup> )	841	1,706	7,924
325	Structural clay products.....	11	8	443	1,297	388	882	1,055	2,758	3,411	96	413	1,476
3251	Brick and hollow tile.....	11	8	443	1,297	388	882	1,055	2,758	3,411	96	413	1,476
327	Concrete and plaster products	36	9	809	2,873	661	1,533	2,167	7,837	( <sup>2</sup> )	477	819	5,008

See footnotes at end of table.



Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manufacture	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
33	Primary metal industries...	37	19	3,810	15,350	3,449	6,766	13,291	25,494	( <sup>2</sup> )	1,090	3,374	16,442
332	Iron and steel foundries.....	12	8	943	3,657	846	1,621	3,135	5,636	( <sup>2</sup> )	146	694	3,011
333	Primary nonferrous metals....	3	3	2,291	9,168	2,098	4,033	8,061	13,847	(D)	2,199	11,311	11,311
3333	Primary zinc.....	3	3	2,291	9,168	2,098	4,033	8,061	13,847	(D)	2,199	11,311	11,311
3361	Nonferrous foundries.....	17	6	213	802	188	395	626	1,329	(D)	116	(D)	(D)
34	Fabricated metal products..	151	38	6,539	27,318	4,521	9,370	15,616	49,343	( <sup>2</sup> )	1,516	3,628	19,357
343	Heating and plumbing equipment.....	10	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3439	Heating and cooking equip., nec	8	4	277	1,125	242	466	869	2,113	(D)	88	191	(D)
344	Structural metal products....	91	30	5,840	24,768	3,932	8,252	13,705	44,542	( <sup>2</sup> )	1,263	2,990	16,248
3441	Structural and ornamental work.	27	13	2,409	10,075	1,712	3,549	5,738	15,708	(D)	654	1,314	7,228
3443	Boiler shop products.....	19	14	3,110	13,504	1,969	4,203	7,181	26,645	(D)	418	1,518	8,548
346	Metal stamping and coating...	23	2	207	674	178	326	512	1,090	( <sup>2</sup> )	120	(D)	(D)
3468	Plating and polishing.....	16	...	116	339	101	185	299	585	(D)	54	24	(D)
35	Machinery, except electrical.....	277	88	10,768	45,647	7,840	16,017	29,037	76,332	( <sup>2</sup> )	3,057	6,131	36,639
352	Tractors and farm machinery..	10	2	190	573	167	372	473	965	( <sup>2</sup> )	22	(D)	(D)
353	Construction and mining machinery.....	79	33	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3532	Oilfield machinery and tools...	68	27	5,656	25,206	3,878	7,734	15,058	39,150	(D)	1,203	3,554	(D)
354	Metalworking machinery.....	12	3	173	684	151	301	566	651	( <sup>2</sup> )	43	(D)	(D)
355	Special-industry machinery, n.e.c.....	10	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3559	Special-industry mach., n.e.c...	8	3	127	391	96	214	222	766	(D)	26	48	(D)
356	General industrial machinery.	39	23	1,974	8,331	1,462	3,012	5,174	15,325	( <sup>2</sup> )	554	1,118	5,919
359	Miscellaneous machinery parts	113	20	1,831	7,510	1,462	3,137	5,480	13,759	( <sup>2</sup> )	803	633	3,533
3599	Machine shops.....	89	10	879	3,481	738	1,572	2,631	6,780	(D)	325	143	659
36	Electrical machinery.....	15	6	1,178	4,049	921	1,842	2,940	9,341	( <sup>2</sup> )	383	(D)	(D)
37	Transportation equipment...	40	11	10,884	50,168	8,705	18,188	38,106	50,080	( <sup>2</sup> )	322	1,336	5,556
371	Motor vehicles and equipment.	20	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3713	Truck and bus bodies.....	7	1	148	415	122	250	330	529	(D)	45	512	2,145
3729	Aircraft equipment, n.e.c.....	10	5	1,011	3,691	894	1,947	2,917	5,412	(D)	61	(D)	(D)
38	Instruments and related products.....	26	7	515	2,136	374	766	1,348	3,993	( <sup>2</sup> )	150	453	(D)
3811	Scientific instruments.....	4	1	119	570	68	166	311	961	(D)	45	257	(D)
39	Miscellaneous manufactures <sup>4</sup>	84	5	769	2,353	588	1,120	1,489	4,088	( <sup>2</sup> )	399	317	1,096
3971	Plastics products, n.e.c.....	8	1	143	414	96	194	212	664	(D)	82	(D)	(D)
398	} Miscellaneous manufactures <sup>4</sup> ..	52	3	468	1,433	375	704	994	2,264	( <sup>2</sup> )	209	228	857
399			26	2	275	893	219	399	629	(D)	191	108	465
3993	Signs and advertising displays.	26	2	275	893	219	399	629	1,414	(D)	191	108	465

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industries (4-digit) and industry groups (3-digit) are not shown. Industries and industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "all industries" line.

<sup>2</sup>The total value of shipments figures for industry groups and a few individual industries have not been published due to the extensive and unmeasurable duplication arising from shipments from one establishment to another in the same industry classification. (See Introduction)

<sup>3</sup>Comparable data are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude establishments in S.I.C. Industry 2411, Logging Camps and Contractors, which are included in the scope of the 1954 Census; the 1947 Census also excludes plants processing and distributing fluid milk which in 1954 were classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	All industries except subgroups 202 and 2411, total.....	76,710	559,245	54,292	335,990
20	Food and kindred products except subgroup 202, Dairy products.....	12,543	77,104	13,338	70,810
24	Lumber and wood products except Industry 2411, Logging camps and contractors.....	1,900	7,700	2,381	8,298

<sup>4</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordinance and Accessories." (Establishments which are Government-owned and operated are not included.)

Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUPS: 1954 AND 1947

(This State contained no standard metropolitan area with 40,000 or more manufacturing employees in 1954 or 1947)



## MANUFACTURES—AREA STATISTICS

Table 6.—GENERAL STATISTICS FOR PRINCIPAL INDUSTRIAL COUNTIES, BY MAJOR INDUSTRY GROUP: 1954 AND 1947

(Principal industrial counties include all counties with 20,000 or more manufacturing employees. For explanation of column captions see Introduction)

Code	Major industry group	1954								1947	
		Establishments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendit- ures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
		TULSA COUNTY									
	All industries, total <sup>1</sup> .....	520	28,895	124,413	21,703	43,990	84,264	203,125	8,928	<sup>2</sup> 14,756	96,462
20	Food and kindred products.....	65	1,989	6,951	1,008	2,240	2,739	13,272	771	(NA)	(NA)
23	Apparel and related products...	14	131	264	112	188	182	400	6	(NA)	(NA)
25	Furniture and fixtures.....	21	146	457	116	224	343	759	31	(NA)	(NA)
27	Printing and publishing.....	68	1,484	6,576	901	1,649	3,532	12,247	242	(NA)	(NA)
28	Chemicals and products.....	17	420	1,621	246	507	741	3,334	183	(NA)	(NA)
29	Petroleum and coal products....	7	2,221	9,877	1,878	3,086	7,494	34,597	3,607	(NA)	(NA)
32	Stone, clay, and glass products	20	564	1,826	497	1,005	1,420	3,586	206	(NA)	(NA)
33	Primary metal industries.....	16	1,070	4,649	981	1,972	4,073	9,363	132	(NA)	(NA)
34	Lighting Fixtures.....	69	3,414	14,799	2,242	4,697	7,681	28,388	836	(NA)	(NA)
35	Machinery, except electrical...	137	5,428	23,651	4,051	8,284	15,412	41,330	2,183	(NA)	(NA)
36	Electrical machinery.....	10	427	1,783	302	666	1,100	2,848	61	(NA)	(NA)
38	Instruments and related prod...	17	457	1,946	333	686	1,230	3,500	108	(NA)	(NA)
39	Miscellaneous manufactures <sup>3</sup> ....	24	362	1,226	280	534	791	2,171	278	(NA)	(NA)

NA Not available

<sup>1</sup>In order to avoid disclosing data for individual companies, the statistics for some industry groups are not shown. Industry groups reporting less than 100 employees are also omitted. They are included, however, in the "All industries" line.<sup>2</sup>The 1954 and 1947 "All industries" totals are not strictly comparable because of differences in coverage of loggers and fluid milk distributors. See discussion in Introduction and footnote to Table 4 for comparable figures at the State level.<sup>3</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)

Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954

20 Food and kindred products	26 Pulp, paper and products	32 Stone, clay, and glass products	38 Instruments and related products
21 Tobacco manufactures	27 Printing and publishing	33 Primary metal industries	39 Miscellaneous manufactures (Includes Group 19)
22 Textile mill products	28 Chemicals and products	34 Fabricated metal products	Ordnance and accessories)
23 Apparel and related products	29 Petroleum and coal products	35 Machinery, except electrical	
24 Lumber and wood products	30 Rubber products	36 Electrical machinery	
25 Furniture and fixtures	31 Leather and leather goods	37 Transportation equipment	

(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Oklahoma, total.....	2,131	593	...	3	55	147	91	9	380	79	38	8	11	87	37	151	277	15	40	26	84
1 to 4 employees.....	896	205	...	...	17	87	55	2	207	23	5	3	7	26	9	66	94	7	12	14	57
5 to 9 employees.....	392	127	...	1	10	24	15	...	69	16	2	2	1	13	6	28	53	...	7	4	14
10 to 19 employees.....	319	115	...	...	5	15	9	...	56	14	5	1	...	14	3	19	42	2	10	1	8
20 to 49 employees.....	263	74	...	...	11	11	8	2	30	19	5	...	1	12	10	17	52	2	3	4	2
50 to 99 employees.....	125	42	...	1	6	7	2	3	14	4	5	...	2	9	3	7	16	...	2	1	1
100 to 249 employees.....	83	26	...	...	5	2	...	2	2	3	9	1	...	3	2	9	11	2	2	2	2
250 to 499 employees.....	28	2	...	...	...	1	2	...	...	5	...	...	...	9	...	2	5	1	1	...	...
500 to 999 employees.....	16	...	...	...	1	...	...	...	2	...	...	...	...	1	4	2	3	1	2	...	...
1,000 to 2,499 employees.....	8	2	...	1	...	...	...	...	...	2	1	...	...	...	...	1	1	...	...	...	...
2,500 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
Adair:																					
1 to 19 employees.....	6	2	...	...	...	1	...	...	2	1	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Afalfa:																					
1 to 19 employees.....	8	4	...	...	...	...	...	...	3	...	...	...	...	...	...	...	1	...	...	...	...
Atoka:																					
1 to 19 employees.....	12	3	...	...	...	7	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
Beaver:																					
1 to 19 employees.....	2	...	...	...	...	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Beckham:																					
1 to 19 employees.....	12	5	...	...	...	...	...	...	4	2	...	...	...	...	...	...	...	...	...	...	1
20 to 99 employees.....	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Blaine:																					
1 to 19 employees.....	6	3	...	...	...	...	...	...	2	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Bryan:																					
1 to 19 employees.....	14	5	...	...	...	5	2	...	...	1	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	6	3	...	...	...	1	...	...	1	...	...	...	...	...	...	...	...	...	1	...	...
Caddo:																					
1 to 19 employees.....	9	3	...	...	...	...	...	...	5	...	...	...	...	...	...	...	...	...	...	...	1
20 to 99 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
Canadian:																					
1 to 19 employees.....	9	5	...	...	...	...	...	...	2	...	...	...	...	...	1	...	1	...	...	...	...
20 to 99 employees.....	4	3	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Carter:																					
1 to 19 employees.....	25	14	...	...	2	1	1	...	2	...	...	...	1	...	...	1	1	...	...	...	2
20 to 99 employees.....	8	5	...	...	...	...	...	...	2	...	...	...	1	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
Cherokee:																					
1 to 19 employees.....	6	2	...	...	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	1
Choctaw:																					
1 to 19 employees.....	13	5	...	...	1	3	...	...	3	1	...	...	...	...	...	...	...	...	...	...	...
Cimarron:																					
1 to 19 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Cleveland:																					
1 to 19 employees.....	12	5	...	...	1	...	...	...	2	1	...	...	...	...	...	1	1	...	...	...	1
20 to 99 employees.....	2	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Coal:																					
1 to 19 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Comanche:																					
1 to 19 employees.....	26	11	...	1	...	1	2	...	4	1	1	...	...	1	...	...	2	...	...	...	2
20 to 99 employees.....	7	4	...	...	...	...	...	...	1	...	...	...	...	1	...	1	...	...	...	...	...
100 employees and over.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Cotton:																					
1 to 19 employees.....	3	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...
Craig:																					
1 to 19 employees.....	15	10	...	...	...	1	...	...	2	...	...	...	...	1	...	...	...	...	...	...	1
Creek:																					
1 to 19 employees.....	26	10	...	...	...	...	...	...	8	...	...	...	...	1	...	1	4	...	2	...	...
20 to 99 employees.....	8	1	...	...	1	...	...	...	1	1	...	...	...	2	...	2	...	...	...	...	...
100 employees and over.....	5	1	...	...	1	...	...	...	...	1	...	...	...	2	...	...	...	...	...	...	...
Custer:																					
1 to 19 employees.....	18	9	...	...	...	...	...	...	6	1	...	...	...	...	...	...	1	...	...	...	1
20 to 99 employees.....	4	1	...	...	...	...	...	...	...	1	...	...	...	1	...	...	1	...	...	...	...
Delaware:																					
1 to 19 employees.....	5	...	...	...	3	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
Dewey:																					
1 to 19 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Ellis:																					
1 to 19 employees.....	4	1	...	...	...	1	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
Garfield:																					
1 to 19 employees.....	45	11	...	...	1	1	1	...	12	3	...	...	1	2	...	3	6	...	1	...	3
20 to 99 employees.....	12	7	...	...	...	...	...	...	1	...	...	...	...	...	2	...	2	...	...	...	...
100 employees and over.....	4	2	...	...	...	...	...	...	...	1	...	...	...	...	...	...	1	...	...	...	...

## MANUFACTURES—AREA STATISTICS

Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954—Continued  
(Counties and size classes in which no manufacturing establishments were reported are omitted)

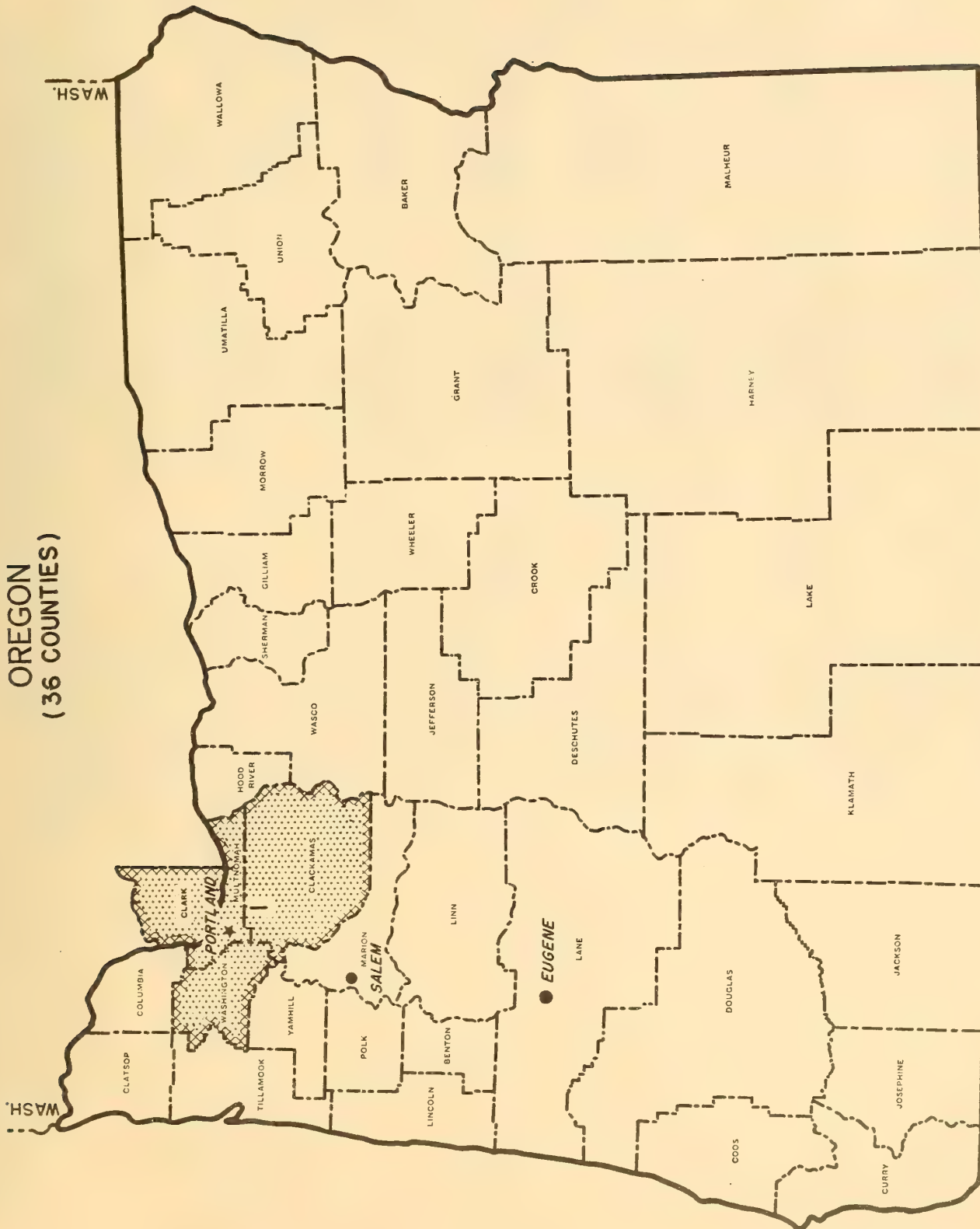
State, county, and size class	Establish- ments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Garvin:																					
1 to 19 employees.....	13	5	...	...	...	...	1	...	5	...	...	...	...	...	...	1	...	...	...	...	1
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...
Grady:																					
1 to 19 employees.....	28	13	...	...	...	...	1	...	5	...	...	...	...	...	...	2	5	...	1	...	1
20 to 99 employees.....	10	7	...	...	...	...	...	...	1	1	...	...	...	...	...	...	1	...	...	...	...
Grant:																					
1 to 19 employees.....	6	3	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	...	...	1
20 to 99 employees.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
Greer:																					
1 to 19 employees.....	9	6	...	...	...	...	...	...	2	...	...	...	...	...	...	1	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Harmon:																					
1 to 19 employees.....	3	2	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
Harper:																					
1 to 19 employees.....	4	2	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1	...	...
Haskell:																					
1 to 19 employees.....	4	2	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
Hughes:																					
1 to 19 employees.....	6	2	...	...	...	1	...	...	2	...	...	...	...	...	...	1	...	...	...	...	...
100 employees and over.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Jackson:																					
1 to 19 employees.....	11	6	...	...	...	1	...	...	3	...	...	...	...	...	...	1	...	...	...	...	...
20 to 99 employees.....	4	2	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...
Jefferson:																					
1 to 19 employees.....	4	1	...	...	...	...	1	...	2	...	...	...	...	...	...	...	...	...	...	...	...
Johnston:																					
1 to 19 employees.....	4	2	...	...	...	...	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...
Kay:																					
1 to 19 employees.....	30	15	...	...	...	2	1	...	6	...	...	...	...	...	1	1	2	...	1	...	1
20 to 99 employees.....	14	4	...	...	1	...	...	...	2	1	...	...	...	...	1	...	5	...	...	...	...
100 employees and over.....	6	...	...	...	...	...	...	...	...	...	2	...	...	1	2	...	1	...	...	...	...
Kingfisher:																					
1 to 19 employees.....	5	2	...	...	...	...	...	...	2	...	...	...	...	...	...	1	...	...	...	...	...
Kiowa:																					
1 to 19 employees.....	10	2	...	...	...	...	1	...	5	...	...	...	...	2	...	...	...	...	...	...	...
20 to 99 employees.....	3	...	...	...	...	...	...	...	...	1	...	...	...	2	...	...	...	...	...	...	...
Latimer:																					
1 to 19 employees.....	4	...	...	...	...	3	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
LeFlore:																					
1 to 19 employee .....	16	4	...	...	...	6	2	...	3	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	4	1	...	...	1	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Lincoln:																					
1 to 19 employees.....	14	3	...	...	...	1	...	...	5	1	...	...	1	...	...	1	2	...	...	...	...
20 to 99 employees.....	2	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...
Logan:																					
1 to 19 employees.....	14	3	...	...	...	2	...	...	3	...	...	1	...	1	...	...	2	...	...	...	2
20 to 99 employees.....	3	1	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Love:																					
1 to 19 employees.....	3	2	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
McClain:																					
1 to 19 employees.....	7	4	...	...	...	1	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
McCurtain:																					
1 to 19 employees.....	26	2	...	...	...	22	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...
20 to 99 employees.....	4	...	...	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
McIntosh:																					
1 to 19 employees.....	5	1	...	...	...	2	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Major:																					
1 to 19 employees.....	2	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Marshall:																					
1 to 19 employees.....	5	3	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	2	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Mayes:																					
1 to 19 employees.....	11	3	...	...	1	...	...	...	3	...	...	...	...	2	...	...	...	...	1	...	1
20 to 99 employees.....	4	...	...	...	1	...	...	2	...	1	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
Murray:																					
1 to 19 employees.....	5	2	...	...	...	...	...	...	2	...	...	...	...	...	...	1	...	...	...	...	...
20 to 99 employees.....	3	2	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...
Muskogee:																					
1 to 19 employees.....	42	19	...	...	...	2	4	...	9	1	...	...	...	2	...	2	1	...	...	...	2
20 to 99 employees.....	19	10	...	...	1	1	1	1	2	...	...	...	...	...	...	3	...	...	...	...	...
100 employees and over.....	7	3	...	...	...	...	...	...	...	...	...	1	...	2	...	1	...	...	...	...	...
Noble:																					
1 to 19 employees.....	4	...	...	...	...	1	...	...	1	...	...	...	...	1	...	...	1	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...



Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954—Continued  
(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establish- ments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Nowata:																					
1 to 19 employees.....	9	3	...	...	...	2	...	...	1	1	...	...	...	...	...	...	2	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
Okfuskee:																					
1 to 19 employees.....	2	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
Oklahoma:																					
1 to 19 employees.....	348	56	...	...	12	17	33	2	68	20	3	2	3	11	5	35	41	1	7	6	26
20 to 99 employees.....	89	25	...	1	4	3	5	1	10	6	4	...	...	4	3	6	14	1	1	...	1
100 employees and over.....	30	13	...	...	...	1	1	1	2	...	1	...	...	...	...	5	3	1	2	...	...
Okmulgee:																					
1 to 19 employees.....	26	11	...	...	...	1	...	...	5	...	...	...	...	2	1	3	...	...	...	...	3
20 to 99 employees.....	6	1	...	...	...	1	...	...	1	...	...	...	1	1	...	...	1	...	...	...	...
100 employees and over.....	5	...	...	...	...	...	...	...	...	...	1	...	...	3	1	...	...	...	...	...	...
Osage:																					
1 to 19 employees.....	19	9	...	...	...	...	...	...	7	...	...	...	1	...	...	...	1	...	...	...	1
100 employees and over.....	3	...	...	...	1	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...
Ottawa:																					
1 to 19 employees.....	30	6	...	...	2	3	2	...	2	1	...	1	...	2	...	2	6	...	...	...	3
20 to 99 employees.....	6	...	...	...	2	...	...	...	1	...	...	...	...	...	...	1	1	...	1	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...
Pawnee:																					
1 to 19 employees.....	5	2	...	...	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...
Payne:																					
1 to 19 employees.....	17	10	...	...	...	...	...	...	3	...	...	...	1	...	...	1	1	...	...	...	1
20 to 99 employees.....	5	3	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...
Pillsburg:																					
1 to 19 employees.....	20	12	...	...	...	4	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	5	2	...	...	1	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Pontotoc:																					
1 to 19 employees.....	18	8	...	...	...	1	1	...	2	...	1	...	...	1	...	...	3	...	...	1	...
20 to 99 employees.....	8	3	...	...	...	...	1	1	1	1	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	3	1	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...
Pottawatomie:																					
1 to 19 employees.....	34	16	...	...	1	2	2	...	5	3	...	...	...	1	...	1	2	...	...	...	1
20 to 99 employees.....	5	2	...	...	1	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	3	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	...
Pushmataha:																					
1 to 19 employees.....	13	2	...	...	...	9	...	...	1	...	...	...	...	...	...	1	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Roger Mills:																					
1 to 19 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Rogers:																					
1 to 19 employees.....	8	4	...	...	...	1	...	...	2	1	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
Seminole:																					
1 to 19 employees.....	22	10	...	...	...	...	...	...	4	1	1	...	...	3	...	1	2	...	...	...	...
20 to 99 employees.....	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	...	...	...
100 employees and over.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sequoyah:																					
1 to 19 employees.....	3	2	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	2	...	...	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Stephens:																					
1 to 19 employees.....	15	4	...	...	...	...	2	...	3	...	1	...	...	1	...	1	3	...	...	...	...
20 to 99 employees.....	3	1	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	1	...	...	...	...
Texas:																					
1 to 19 employees.....	9	2	...	...	...	...	...	...	4	1	...	...	...	...	...	...	2	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
Tillman:																					
1 to 19 employees.....	10	4	...	...	...	...	...	...	4	...	...	...	...	1	...	...	...	...	1	...	...
20 to 99 employees.....	2	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...
Tulsa:																					
1 to 19 employees.....	373	46	...	...	11	11	19	...	58	11	4	2	...	12	8	48	90	8	13	11	21
20 to 99 employees.....	102	13	...	...	3	2	2	...	8	5	1	...	...	7	6	13	34	...	2	4	2
100 employees and over.....	45	6	...	1	...	...	...	1	2	1	2	...	...	1	2	8	13	2	3	2	1
Wagoner:																					
1 to 19 employees.....	8	3	...	...	...	1	...	...	1	...	...	...	...	1	...	1	...	...	1	...	...
Washington:																					
1 to 19 employees.....	20	5	...	...	...	3	1	...	3	...	1	...	...	1	2	1	2	...	...	1	...
20 to 99 employees.....	8	2	...	...	...	...	...	...	1	1	...	...	...	...	1	...	2	...	...	1	...
100 and over.....	3	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	1	...	...	...	...
Washita:																					
1 to 19 employees.....	6	3	...	...	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...
Woods:																					
1 to 19 employees.....	10	5	...	...	...	...	1	...	3	1	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	3	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Woodward:																					
1 to 19 employees.....	7	4	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	...	...	1
20 to 99 employees.....	2	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...





# OREGON (36 COUNTIES)

## LEGEND

● PLACES OF 25,000 TO 100,000

★ PLACES OF 100,000 AND OVER

STANDARD METROPOLITAN AREA

## STANDARD METROPOLITAN AREA

CODE  
1 PORTLAND



## MANUFACTURES—AREA STATISTICS

Table 1.—MANUFACTURING EMPLOYMENT AT OPERATING ESTABLISHMENTS AND CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARIES FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS

(This table includes data for all manufacturing employees including those located in central administrative offices and auxiliaries. Tables 2-7 in this report include data for operating establishments only. For explanation of column captions see Introduction)

State, standard metropolitan areas, and year <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	(Number)	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
Oregon:						
1954.....	135,309	566,671	134,343	561,580	966	5,091
1953 <sup>2</sup> .....	132,385	556,923	131,365	550,555	1,020	6,368
1952 <sup>2</sup> .....	137,940	546,482	136,589	539,818	<sup>3</sup> 1,351	<sup>3</sup> 6,664
1951 <sup>2</sup> .....	133,101	502,749	131,750	496,085	1,351	6,664
1950 <sup>2</sup> .....	119,419	409,068	118,722	406,472	697	2,596
1949 <sup>2</sup> .....	111,846	365,108	111,060	362,300	786	2,808
1954						
Standard metropolitan area:						
Portland <sup>4</sup> .....	57,453	244,096	56,729	239,997	724	4,099

<sup>1</sup>Employment data for administrative offices and auxiliaries on a State basis are not available for the years prior to 1949. Similar data for standard metropolitan areas are available only for 1954.<sup>2</sup>The employment figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period. The employment figures for administrative and auxiliary units were compiled chiefly from Bureau of Old-Age and Survivors Insurance records and are not strictly comparable with the figures for these units that were collected by the Bureau of the Census for the year 1954.<sup>3</sup>The 1951 data are shown for 1952 since auxiliary and administrative unit data were not collected in 1952.<sup>4</sup>The Portland Standard Metropolitan Area consists of Clackamas, Multnomah, and Washington Counties, Oregon; and Clark County, Washington.

Table 2.—GENERAL STATISTICS FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Year	Establish- ments, number	All employees		Production workers		Value added by manufacture (\$1,000)	
		Number	Payroll (\$1,000)	Number	Wages (\$1,000)		
		OREGON					
1954 <sup>1</sup> .....	5,870	134,343	561,580	114,464	447,741	1,037,456	
1953 <sup>2</sup> .....	(NA)	131,365	550,555	112,887	448,287	985,834	
1952 <sup>2</sup> .....	(NA)	136,589	539,818	119,267	450,663	1,049,151	
1951 <sup>2</sup> .....	(NA)	131,750	496,085	114,710	411,621	945,875	
1950 <sup>2</sup> .....	(NA)	118,722	406,472	101,997	333,176	806,947	
1949 <sup>2</sup> .....	(NA)	111,060	362,300	96,634	297,843	633,136	
1947.....	3,075	105,591	317,827	92,144	265,837	675,017	
1939.....	1,903	67,222	87,938	57,487	69,574	156,696	
1937.....	2,107	73,033	94,162	65,982	79,492	169,057	
1935.....	1,710	57,057	63,096	51,006	51,415	113,947	
1933.....	1,358	(NA)	(NA)	41,052	34,787	86,553	
1931.....	1,709	(NA)	(NA)	42,267	47,504	110,993	
1929.....	2,463	73,865	106,242	65,505	86,829	206,542	
1927.....	1,779	(NA)	(NA)	57,179	75,717	155,081	
1925.....	1,908	(NA)	(NA)	59,579	78,209	159,340	
1923.....	1,909	(NA)	(NA)	62,655	81,769	167,794	
1921.....	1,730	(NA)	(NA)	40,167	49,395	99,994	
1919.....	2,478	64,596	93,906	57,832	80,067	158,763	
1914.....	2,265	33,033	26,387	28,644	20,754	46,116	
1909.....	2,246	32,223	23,949	28,750	19,902	42,452	
1904.....	1,602	20,292	13,576	18,523	11,444	24,928	
1899.....	1,406	15,602	8,044	14,459	6,822	15,804	
		PORTLAND STANDARD METROPOLITAN AREA					
1954 <sup>1</sup> .....	1,787	56,729	239,997	44,840	144,819	386,989	
1947.....	1,298	51,643	153,747	42,675	119,893	314,273	
1939.....	943	28,398	38,224	25,017	30,679	79,875	
1929.....	1,307	38,083	56,783	31,576	42,254	112,605	
1919.....	1,129	(NA)	(NA)	38,075	54,862	111,892	

NA Not available.

<sup>1</sup>The 1954 figures include data for establishments engaged in the processing and distribution of fluid milk, Industry Group 202, Dairy Products. These establishments were not included in the figures for the Annual Survey years 1949-1953 or earlier Census years. In addition, the 1954 Census and Annual Survey years include data for Logging camps and contractors, Industry 2411, which were not included within the scope of the 1947 Census. See footnotes to Table 4 for comparable 1954 and 1947 totals. There were also a number of changes in the definition of manufacturing industries during earlier Census years that affect the comparability of the historical series. Among the more important of these were: figures for 1935 and later years exclude data for "Railroad repair shops" and "Manufactured gas" which were included in 1899-1953 figures; the minimum size of establishment included for 1954 and 1947 was one employee, for 1939-1921 manufacturing establishments reporting value of shipments of \$5,000 or more were within scope whereas for 1919 and earlier years the cutoff was \$500. (This change in procedure has not appreciably affected the comparability of the historical data except for the figures on number of establishments.)

<sup>2</sup>The employment and payroll figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments.) The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period.

## MANUFACTURES—AREA STATISTICS

Table 3.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
Oregon, total.....	1,521,341	5,870	134,343	561,580	114,464	214,740	447,741	1,037,456	67,811	( <sup>1</sup> )	( <sup>1</sup> )
STANDARD METROPOLITAN AREAS											
Portland area, total.....	704,829	1,787	56,729	239,997	44,840	85,943	172,036	475,021	27,190	51,643	314,273
Portion in Oregon.....	619,522	1,653	48,297	205,575	37,835	72,292	144,819	386,989	17,000	45,025	261,527
Portion in Washington.....	85,307	134	8,431	34,422	7,004	13,650	27,216	88,032	10,190	6,618	52,746
COUNTIES											
Baker.....	16,175	49	667	2,568	598	1,133	2,180	4,433	791	628	3,678
Benton.....	31,570	150	2,030	7,987	1,809	3,269	6,799	14,831	1,663	1,195	8,168
Clackamas.....	86,716	284	5,077	21,413	4,411	8,283	17,642	44,219	4,215	4,120	26,315
Clatsop.....	30,776	105	3,101	11,429	2,802	4,714	9,616	16,029	648	3,176	17,673
Columbia.....	22,967	113	2,760	10,962	2,486	4,345	9,351	20,885	3,230	2,942	22,115
Coos.....	42,265	303	6,985	30,257	6,290	11,514	25,826	52,601	7,896	3,749	26,631
Crook.....	8,991	24	1,310	6,660	1,222	2,497	6,077	10,502	319	653	5,007
Curry.....	6,048	124	1,532	6,295	1,404	2,456	5,546	12,564	1,572	111	490
Deschutes.....	21,812	70	1,601	5,952	1,331	2,242	4,728	10,797	459	2,067	12,515
Douglas.....	54,549	545	9,564	41,842	8,791	16,511	37,179	80,612	5,725	5,296	38,162
Gilliam.....	2,817	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Grant.....	8,329	29	694	3,456	647	1,342	3,099	5,061	305	819	5,470
Harney.....	6,113	10	826	4,685	768	1,817	4,312	10,433	196	680	(D)
Hood River.....	12,740	47	890	2,969	834	1,462	2,718	5,221	708	629	3,957
Jackson.....	58,510	259	4,987	21,308	4,390	8,176	17,629	37,636	2,815	2,878	22,604
Jefferson.....	5,536	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	168	(D)
Josephine.....	26,542	198	2,219	9,243	2,015	3,757	7,865	17,451	1,694	1,412	8,534
Klamath.....	42,150	72	3,779	16,272	3,348	6,383	13,926	26,571	1,507	2,971	20,232
Lake.....	6,649	37	891	4,141	792	1,617	3,582	7,660	392	497	4,086
Lane.....	125,776	700	13,980	60,059	12,155	22,929	49,544	109,063	8,080	8,721	59,346
Lincoln.....	21,308	190	2,507	9,615	2,245	3,757	7,992	16,370	1,618	1,840	10,912
Linn.....	54,317	257	6,510	27,575	5,904	11,249	24,201	53,971	2,980	4,571	32,799
Malheur.....	23,223	21	702	2,038	617	1,218	1,731	6,460	249	604	(D)
Marion.....	101,401	256	5,127	18,972	4,252	8,224	14,658	39,821	2,002	5,287	30,257
Morrow.....	4,783	7	161	(D)	139	(D)	(D)	(D)	(D)	153	1,665
Multnomah.....	471,537	1,180	40,228	173,174	30,922	59,357	118,783	315,481	11,405	39,235	225,166
Polk.....	26,317	113	2,878	10,387	2,604	4,514	9,114	21,373	907	2,110	15,007
Sherman.....	2,271	...	...	...	...	...	...	...	...	(D)	(D)
Tillamook.....	18,606	174	2,648	10,183	2,385	4,005	8,617	15,616	1,103	1,186	6,336
Umatilla.....	41,703	67	2,532	9,416	2,172	4,183	8,178	16,755	1,684	2,000	12,281
Union.....	17,962	59	1,003	4,213	890	1,715	3,409	7,780	371	897	5,442
Wallowa.....	7,264	30	412	1,898	387	869	1,755	3,392	142	384	2,577
Wasco.....	15,552	42	806	3,345	689	1,302	2,648	5,835	557	444	2,641
Washington.....	61,269	189	2,991	10,987	2,501	4,652	8,393	27,288	1,379	1,670	10,046
Wheeler.....	3,313	9	788	3,546	706	1,362	3,086	4,463	246	519	3,915
Yamhill.....	33,484	150	1,967	7,204	1,783	3,302	6,304	12,935	864	1,974	13,413
CITIES WITH 10,000 INHAB- ITANTS OR MORE											
Albany.....	10,115	27	1,121	4,540	992	1,928	3,945	8,947	305	(NA)	(NA)
Astoria.....	12,331	28	1,333	4,435	1,210	2,111	3,811	7,211	202	1,740	10,304
Bend.....	11,409	24	479	1,188	383	475	890	2,087	137	186	935
Corvallis.....	16,207	27	522	1,766	420	739	1,337	2,767	205	(NA)	(NA)
Eugene.....	35,879	116	4,027	16,713	3,237	6,511	12,656	29,254	1,373	1,426	8,188
Klamath Falls.....	15,875	31	1,184	4,866	966	1,837	3,880	7,975	294	776	5,413
Medford.....	17,305	43	896	3,660	674	1,309	2,619	5,985	340	401	2,346
Pendleton.....	11,774	16	900	3,323	761	1,514	3,075	4,745	188	(NA)	(NA)
Portland.....	373,628	997	35,285	151,533	27,126	51,851	103,096	273,458	9,990	33,803	195,164
Salem.....	43,140	97	3,918	14,415	3,176	6,148	10,724	28,201	1,141	3,589	21,606
Springfield.....	10,807	52	1,666	7,788	1,448	2,897	6,395	12,663	1,243	(NA)	(NA)

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>The 1947 data are not strictly comparable with the figures shown for 1954 due to differences in coverage of loggers and fluid milk distributors.  
See discussion in Introduction and footnotes to Table 4.



Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947  
(For explanation of column captions see Introduction)

Ind. code	Industry	1956									1947		
		Establish- ments, number		All employees		Production workers			Value added by manufacture	Value of shipments	Capital expendi- tures, new	All employees, number	Value added by manufacture
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
	All industries, total <sup>1</sup> ...	5,870	1,189	134,343	561,580	114,464	214,740	447,741	1,037,456	( <sup>2</sup> )	67,811	( <sup>3</sup> )	( <sup>3</sup> )
20	Food and kindred products..	573	198	19,032	69,274	14,067	26,996	44,637	141,668	( <sup>2</sup> )	6,663	( <sup>3</sup> )	( <sup>3</sup> )
201	Meat products.....	103	27	2,686	10,657	1,975	3,869	7,197	15,163	( <sup>2</sup> )	1,285	1,926	8,994
2011	Meat packing, plants.....	59	13	1,737	7,556	1,166	2,315	4,794	9,366	( <sup>2</sup> )	787	1,210	5,511
2013	Prepared meats.....	18	5	287	1,269	203	408	828	2,281	( <sup>2</sup> )	78	163	923
2015	Poultry dressing, plants.....	26	9	662	1,832	605	1,146	1,574	3,515	18,764	419	553	2,560
202	Dairy products.....	134	45	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2021	Creamery butter.....	19	5	264	946	197	346	650	1,781	10,383	48	( <sup>3</sup> )	( <sup>3</sup> )
2024	Ice cream and ices.....	23	3	256	990	154	312	510	2,378	6,071	232	( <sup>3</sup> )	( <sup>3</sup> )
2026	Fluid milk.....	15	3	208	863	97	200	345	1,268	4,689	61	( <sup>3</sup> )	( <sup>3</sup> )
2027	Fluid milk and other products..	50	27	2,176	9,867	1,058	2,191	4,004	17,528	58,549	800	( <sup>3</sup> )	( <sup>3</sup> )
203	Canned and frozen foods.....	105	55	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2031	Canned seafood.....	11	6	719	1,763	694	1,023	1,627	3,100	14,112	42	1,296	6,656
2033	Canned fruits and vegetables...	48	25	3,789	11,197	3,416	6,506	9,415	23,959	63,305	1,293	4,581	20,592
2036	Packaged seafood.....	12	5	383	971	356	515	848	800	3,411	58	2,031	(D)
2037	Frozen fruits and vegetables...	22	14	1,573	4,460	1,346	2,666	3,571	10,653	26,491	433		
204	Grain mill products.....	53	25	1,581	6,622	1,103	2,370	4,379	13,303	( <sup>2</sup> )	473	1,789	16,692
2041	Flour and meal.....	12	10	693	2,977	498	1,070	2,031	6,263	46,629	155	895	11,674
2042	Prepared animal feeds.....	37	15	860	3,577	580	1,259	2,293	6,762	32,487	307	875	(D)
205	Bakery products.....	70	27	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2051	Bread and related products.....	67	25	2,101	8,881	1,224	2,295	4,562	16,386	29,795	736	(D)	(D)
208	Beverages.....	52	7	661	2,923	360	582	1,231	5,982	( <sup>2</sup> )	436	739	7,361
209	Miscellaneous foods.....	40	11	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2099	Food preparations, n.e.c.....	26	8	674	2,343	473	944	1,215	6,329	29,458	179	(D)	(D)
22	Textile mill products.....	17	11	2,759	10,440	2,152	4,345	6,555	14,411	( <sup>2</sup> )	661	3,066	12,825
229	Miscellaneous textile goods..	3	2	105	290	92	179	220	339	( <sup>2</sup> )	2	(D)	(D)
23	Apparel and related prod- ucts.....	66	21	2,434	7,307	2,048	3,709	5,229	13,260	( <sup>2</sup> )	188	1,883	7,893
232	Men's and boys' furnishings..	5	2	563	1,790	501	835	1,298	3,072	( <sup>2</sup> )	(D)	547	2,083
233	Women's and misses' outerwear.	19	8	772	2,249	640	1,122	1,579	5,183	( <sup>2</sup> )	36	316	1,520
239	Fabricated textiles, n.e.c....	33	7	768	2,445	622	1,229	1,708	3,980	( <sup>2</sup> )	126	463	2,001
2399	Textile products, n.e.c.....	6	2	119	344	89	177	221	657	1,452	7	(D)	(D)
24	Lumber and wood products...	3,859	666	75,635	321,158	69,329	127,566	279,921	573,672	( <sup>2</sup> )	43,451	( <sup>3</sup> )	( <sup>3</sup> )
2411	Logging camps and contractors	2,225	128	14,021	56,261	12,965	21,395	48,878	112,470	205,722	14,764	( <sup>3</sup> )	( <sup>3</sup> )
242	Lumber and basic products....	1,392	435	45,830	193,878	41,819	76,607	169,136	337,708	( <sup>2</sup> )	24,140	42,893	304,946
2421	Sawmills and planing mills....	1,326	406	44,296	187,771	40,408	74,274	164,003	326,143	726,623	23,600	41,337	296,490
2422	Veneer mills.....	19	18	912	3,995	827	1,566	3,237	8,281	20,230	443	367	(D)
2423	Shingle mills.....	42	7	488	1,705	464	565	1,530	2,528	4,889	67	578	4,023
243	Millwork and related products	154	75	13,660	63,359	12,629	25,915	55,482	110,744	( <sup>2</sup> )	4,153	6,227	46,835
2431	Millwork plants.....	94	25	2,077	8,819	1,860	3,661	7,554	14,385	35,608	446	(D)	(D)
2432	Plywood plants.....	47	46	10,823	51,258	10,083	21,096	46,428	91,473	185,483	3,422	3,561	31,091
2433	Prefabricated wood products....	13	4	759	3,281	685	1,157	1,499	4,885	11,229	284	(D)	(D)
244	Wooden containers.....	28	11	979	3,571	915	1,778	3,230	5,478	( <sup>2</sup> )	118	1,300	5,859
249	Miscellaneous wood products..	60	17	1,142	4,089	999	1,869	3,195	7,271	( <sup>2</sup> )	274	1,112	5,921
2491	Wood preserving.....	8	5	364	1,513	296	551	1,004	2,397	7,222	155	362	2,468
25	Furniture and fixtures.....	81	12	1,841	7,067	1,633	3,191	5,587	11,745	( <sup>2</sup> )	247	3,471	15,298
251	Household furniture.....	41	9	1,472	5,579	1,329	2,611	4,425	9,172	( <sup>2</sup> )	200	2,985	12,773
2511	Wood furniture not upholstered.	20	4	1,040	3,882	951	1,861	3,179	6,618	10,370	182	2,274	9,342
2512	Upholstered household furniture	12	4	359	1,407	321	643	1,065	1,899	4,195	8	602	2,804
2541	Partitions and fixtures.....	21	3	280	1,220	231	444	947	2,045	3,588	26	365	2,045
26	Pulp, paper and products...	51	37	6,030	27,449	5,131	10,391	22,280	64,321	( <sup>2</sup> )	7,801	4,551	34,653
261	Pulp, paper and board.....	23	23	4,510	21,098	3,857	7,824	17,386	52,863	( <sup>2</sup> )	7,061	3,558	27,801
2611	Pulp mills.....	11	11	1,630	7,845	1,405	2,878	6,504	21,908	46,270	4,378	1,310	16,585
2612	Paper and paper board mills...	6	6	2,287	10,810	1,964	3,995	8,937	26,352	76,491	2,008	2,248	11,216
2613	Building paper and board mills.	6	6	593	2,443	488	951	1,945	4,602	9,880	674		
267	Paperboard containers.....	7	4	329	1,301	275	553	1,031	2,404	( <sup>2</sup> )	112	273	(D)
269	Pulp, paper and products, n.e.c.....	13	5	730	2,986	633	1,284	2,481	5,873	( <sup>2</sup> )	405	(D)	(D)
27	Printing and publishing....	315	45	5,081	22,355	2,921	5,321	13,257	38,179	( <sup>2</sup> )	1,017	4,493	24,311
2711	Newspapers.....	112	25	3,408	15,049	1,704	3,003	8,225	25,116	35,838	526	2,879	15,685
2751	Commercial printing.....	116	10	821	3,539	650	1,203	2,680	5,807	8,735	250	949	4,868
2761	Lithographing.....	27	5	395	1,816	301	593	1,274	3,823	5,535	128	222	1,111
279	Printing trade services.....	21	3	205	1,044	154	335	739	1,688	( <sup>2</sup> )	39	140	879
28	Chemicals and products.....	84	21	1,513	6,620	1,021	1,970	3,941	17,209	( <sup>2</sup> )	1,253	1,155	11,750
281	Inorganic chemicals.....	4	3	403	1,822	317	623	1,393	5,865	( <sup>2</sup> )	737	(D)	(D)
284	Soap and related products....	12	2	108	470	65	127	212	844	( <sup>2</sup> )	18	(D)	(D)
285	Paints and allied products...	17	6	322	1,437	190	382	780	3,283	7,271	54	271	2,844
2851	Paints and varnishes.....	17	6	322	1,437	190	382	780	3,283	7,271	54	271	2,844
288	Vegetables and animal oils...	11	1	118	398	104	189	326	849	( <sup>2</sup> )	68	178	3,197
289	Chemical products, n.e.c.....	26	6	424	1,930	256	476	909	4,724	( <sup>2</sup> )	279	292	2,616
2896	Compressed & liquefied gasses..	7	2	155	737	94	183	365	1,097	1,472	120	150	894
2899	Chemical products, n.e.c.....	8	2	117	485	75	138	253	1,633	4,834	109	24	(D)

See footnotes at end of table.

## MANUFACTURES—AREA STATISTICS

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
29	Petroleum and coal products	11	5	369	1,586	269	569	1,120	5,210	(2)	347	332	(D)
295	Paving and roofing materials.	7	4	298	1,237	226	487	931	3,372	9,449	336	(D)	(D)
2952	Roofing felts and coatings.....	7	4	298	1,237	226	487	931	3,372	9,449	336	(D)	(D)
30	Rubber products.....	13	4	265	1,217	183	370	703	2,500	4,373	89	123	587
3099	Rubber industries.....	13	4	265	1,217	183	370	703	2,500	4,373	89	(D)	(D)
31	Leather and leather goods..	24	4	198	612	171	314	475	949	(2)	27	335	1,370
32	Stone, clay and glass products.....	106	15	1,266	5,113	1,054	1,949	3,934	9,720	(2)	1,202	1,172	6,536
325	Structural clay products.....	18	4	226	870	194	368	693	1,388	(2)	90	222	998
327	Concrete and plaster products	65	6	445	1,687	334	629	1,154	3,163	(2)	243	445	2,249
33	Primary metal industries...	57	23	3,008	14,422	2,614	5,111	11,639	34,538	(2)	366	3,002	19,782
332	Iron and steel foundries....	24	12	1,302	5,517	1,173	2,256	4,591	9,563	(2)	167	1,406	6,257
3321	Gray-iron foundries.....	18	6	503	2,072	452	879	1,800	3,115	5,005	27	675	2,937
3323	Steel foundries.....	6	6	799	3,445	721	1,377	2,791	6,447	9,971	140	731	3,320
3361	Nonferrous foundries.....	22	6	300	1,266	251	468	976	1,823	4,058	34	200	1,000
34	Fabricated metal products..	171	46	5,361	25,231	4,344	8,385	18,864	36,368	(2)	2,278	3,891	20,685
342	Cutlery, tools and hardware..	17	4	251	1,014	215	385	728	2,050	(2)	45	351	2,208
343	Heating and plumbing equip-ment.....	11	3	262	1,002	200	360	733	1,748	(2)	18	562	2,533
344	Structural metal products....	86	30	3,785	18,664	3,037	5,894	13,864	23,827	(2)	1,428	2,318	12,443
3441	Structural and ornamental work.	31	13	1,606	8,434	1,196	2,370	5,633	9,783	23,061	774	780	3,591
3442	Metal doors, sash, and trim....	5	3	231	1,037	197	379	818	1,216	2,445	25	(D)	(D)
3443	Boiler shop products.....	131	7	1,492	6,929	1,304	2,466	5,832	8,839	17,351	363	1,023	5,793
3444	Sheet-metal work.....	37	7	455	2,262	338	677	1,580	3,988	7,562	266	459	2,846
346	Metal stamping and coating...	26	2	202	787	172	326	579	1,275	(2)	59	100	(D)
3468	Plating and polishing.....	11	1	101	415	88	168	291	597	747	24	48	(D)
348	Fabricated wire products....	11	2	100	375	72	137	237	469	1,079	48	32	(D)
3489	Wirework, n.e.c.....	11	2	100	375	72	137	237	469	1,079	48	32	(D)
35	Machinery, except electrical.....	220	37	3,634	16,916	2,735	5,444	11,392	31,261	(2)	882	3,817	19,463
352	Tractors and farm machinery..	24	5	219	915	162	332	604	1,942	(2)	26	200	991
3522	Farm machinery (exc. tractors).	17	4	182	757	141	292	524	1,840	3,724	6	(D)	(D)
353	Construction and mining ma- chinery.....	11	3	366	1,631	270	533	1,137	2,717	5,807	85	401	2,915
3531	Construction and mining mach...	11	3	366	1,631	270	533	1,137	2,717	5,807	85	(D)	(D)
355	Special-industry machinery, n.e.c.....	43	12	1,007	4,717	780	1,677	3,348	9,573	(2)	327	892	4,258
3553	Woodworking machinery.....	27	10	783	3,635	619	1,358	2,703	7,599	10,847	296	(D)	(D)
356	General industrial machinery.	24	4	1,114	5,625	765	1,456	3,266	9,443	(2)	78	1,277	5,599
3565	Industrial trucks and tractors.	10	4	1,032	5,247	703	1,334	2,988	8,837	18,376	57	992	4,190
359	Miscellaneous machinery parts	93	10	725	3,118	600	1,139	2,366	5,813	(2)	277	790	4,475
3599	Machine shops.....	76	6	527	2,200	439	856	1,744	3,931	6,071	192	631	3,301
36	Electrical machinery.....	29	12	1,156	5,035	865	1,664	3,295	10,431	(2)	303	709	4,292
3621	Electrical appliances.....	4	3	259	981	220	483	804	2,012	4,041	33	405	(D)
369	Electrical products, n.e.c....	10	4	145	617	103	203	416	937	4,341	(D)	130	1,101
3691	Storage batteries.....	10	4	145	617	103	203	416	937	4,341	(D)	130	1,101
37	Transportation equipment...	58	13	2,448	11,399	2,057	3,923	9,046	16,281	(2)	263	2,804	13,481
371	Motor vehicles and equipment.	20	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3713	Truck and bus bodies.....	7	3	121	495	96	158	347	516	1,074	4	67	(D)
373	Ships and boats.....	34	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3732	Boat building and repairing....	29	1	134	493	115	206	406	531	952	(D)	151	614
38	Instruments and related products.....	18	4	506	2,058	417	835	1,576	5,266	(2)	358	(D)	(D)
39	Miscellaneous manufactures <sup>4</sup>	117	15	1,799	6,314	1,444	2,678	4,280	10,459	(2)	407	1,083	5,112
394	Toys and sporting goods.....	32	2	294	706	267	473	575	1,357	(2)	53	208	729
3949	Sporting and athletic goods...	23	1	137	259	126	212	225	746	1,135	28	113	(D)
398	} Miscellaneous manufactures <sup>4</sup> ..	61	11	1,284	4,978	1,001	1,925	3,297	7,736	(2)	289	750	3,899
399													
3993	Signs and advertising displays.	35	4	340	1,518	215	453	770	2,189	3,207	88	298	1,471

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industries (4-digit) and industry groups (3-digit) are not shown. Industries and industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "all industries" line.

<sup>2</sup>The total value of shipments figures for industry groups and a few individual industries have not been published due to the extensive and unmeasurable duplication arising from shipments from one establishment to another in the same industry classification. (See Introduction.)

Footnotes continued on next page



Footnotes for Table 4.--Continued

<sup>3</sup>Comparable data are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude establishments in S.I.C. Industry 2411, Logging Camps and Contractors, which are included in the scope of the 1954 Census; the 1947 Census also excludes plants processing and distributing fluid milk which in 1954 were classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	All industries except subgroups 202 and 2411, total.....	117,290	898,318	104,307	666,545
20	Food and kindred products except subgroup 202, Dairy products.....	16,000	115,000	16,477	99,295
24	Lumber and wood products except Industry 2411, Logging camps and contractors.....	61,614	461,202	51,532	363,561

<sup>4</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories."  
(Establishments which are Government-owned and operated are not included.)





Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947  
(For explanation of column captions see Introduction)

Code	Industry group	Establishments, number	1954							1947	
			All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours ((1,000)	Wages (\$1,000)				
39	Miscellaneous manufactures <sup>3</sup> .	89	1,655	5,896	1,329	2,462	4,001	9,610	342	906	3,943
394	Toys and sporting goods.....	25	234	574	214	379	469	1,057	23	178	620
398	Miscellaneous manufactures <sup>3</sup> ....	44	1,220	4,753	953	1,830	3,171	7,346	262	644	2,968
399											

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industry groups (3-digit) are not shown. Industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "All industries" line.

<sup>2</sup>Comparable data are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude plants processing and distributing fluid milk which in 1954 were classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1000)	All employees, number	Value added by manufacture (\$1000)
	All industries except subgroups 202 and 241 total.	54,368	455,477	51,172	311,077
20	Food and kindred products except Subgroup 202, Dairy Products.	8,627	75,009	8,187	49,594
24	Lumber and wood products except Industry 2411 Logging camps and contractors.	7,879	54,720	9,101	58,611

<sup>3</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)

## MANUFACTURES—AREA STATISTICS

Table 6.—GENERAL STATISTICS FOR PRINCIPAL INDUSTRIAL COUNTIES, BY MAJOR INDUSTRY GROUP: 1954 AND 1947

(Principal industrial counties include all counties with 20,000 or more manufacturing employees. For explanation of column captions see Introduction)

Code	Major industry group	1954								1947	
		Establish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendit- ures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
		MULTNOMAH COUNTY									
	All industries, total.....	1,180	40,228	173,174	30,922	59,357	118,783	315,481	11,405	239,235	225,166
20	Food and Kindred products....	177	8,164	33,792	5,300	10,082	18,674	70,190	2,989	6,877	43,399
23	Apparel and related products.	54	2,260	6,901	1,896	3,467	4,929	12,845	183	1,629	(D)
24	Lumber and wood products.....	134	4,690	19,901	4,286	7,999	15,978	33,932	1,315	5,575	35,793
25	Furniture and fixtures.....	62	1,729	6,666	1,536	2,975	5,243	11,215	238	2,834	14,068
27	Printing and publishing.....	152	3,030	14,601	1,749	3,190	8,647	23,938	512	3,149	17,678
28	Chemicals and products.....	57	1,220	5,496	834	1,639	3,380	14,079	1,073	910	(D)
32	Stone, clay, & glass products	32	347	1,521	265	480	1,002	2,441	72	404	2,364
34	Fabricated metal products....	127	4,906	23,383	3,987	7,700	17,471	33,074	2,044	3,585	18,882
35	Machinery, except electrical.	131	2,727	12,924	1,998	3,962	8,392	23,357	598	3,318	16,856
36	Electrical machinery.....	20	614	2,436	494	929	1,674	3,898	115	635	(D)
37	Transportation equipment.....	35	1,931	8,930	1,598	3,085	7,061	13,050	235	2,564	12,587
39	Miscellaneous manufactures <sup>3</sup> ..	78	1,568	5,634	1,256	2,333	3,839	8,948	326	886	3,838

D Withheld to avoid disclosing data for individual companies.

<sup>1</sup>In order to avoid disclosing data for individual companies, the statistics for some industry groups are not shown. Industry groups reporting less than 100 employees are also omitted. They are included, however, in the "All industries" line.<sup>2</sup>The 1954 and 1947 "All industries" totals are not strictly comparable because of differences in coverage of loggers and fluid milk distributors. See discussion in Introduction and footnote to Table 4 for comparable figures at the State level.<sup>3</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)



20 Food and kindred products	2 Pulp, paper and products	32 Stone, clay, and glass products	38 Instruments and related products
21 Tobacco manufactures	27 Printing and publishing	33 Primary metal industries	39 Miscellaneous manufactures (includes Group 19 Ordnance and accessories)
22 Textile mill products	28 Chemicals and products	34 Fabricated metal products	
23 Apparel and related products	29 Petroleum and coal products	35 Machinery, except electrical	
24 Lumber and wood products	30 Rubber products	36 Electrical machinery	
25 Furniture and fixtures	31 Leather and leather goods	37 Transportation equipment	

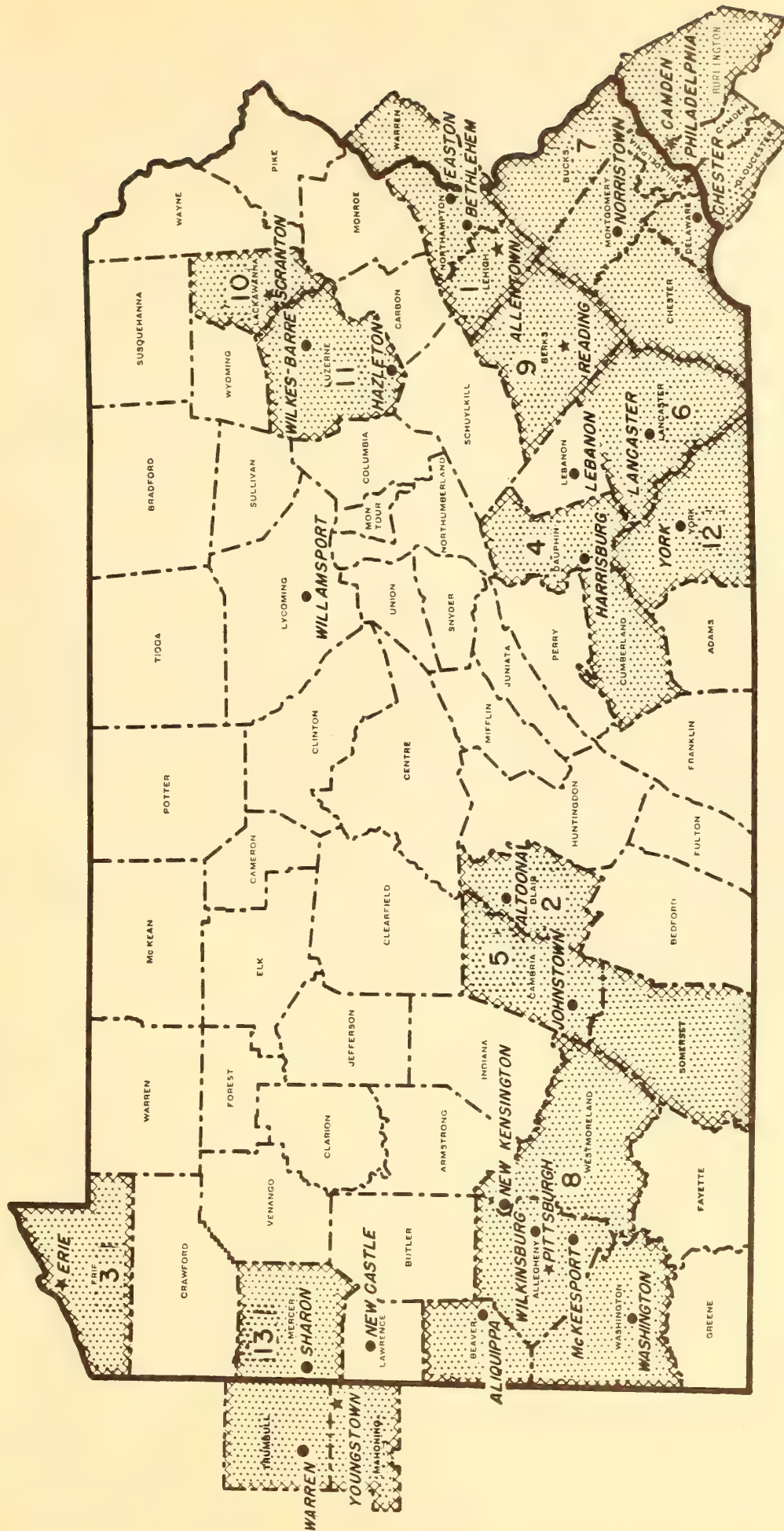
State, county, and size class	Establish- ments, total	Number of establishments of major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Oregon, total.....	5,870	573	...	17	66	3,859	81	51	315	84	11	13	24	106	57	171	220	29	58	18	117
1 to 4 employees.....	3,195	190	...	4	27	2,318	46	5	163	34	4	6	14	61	23	76	111	9	32	9	63
5 to 9 employees.....	813	94	...	1	8	473	14	6	62	11	1	2	5	18	7	29	45	5	6	3	23
10 to 19 employees.....	673	91	...	1	10	402	9	3	45	18	1	1	1	12	4	20	27	3	7	2	16
20 to 49 employees.....	612	104	...	3	8	337	5	8	28	15	1	1	4	12	12	26	27	6	4	...	11
50 to 99 employees.....	299	52	...	3	8	165	4	9	13	4	4	3	...	...	7	12	3	4	4	3	1
100 to 249 employees.....	185	27	...	2	2	117	1	13	2	2	...	...	...	3	1	4	6	1	2	1	1
250 to 499 employees.....	63	11	...	2	3	33	1	6	...	...	...	...	...	...	1	2	...	1	1	...	2
500 to 999 employees.....	28	4	...	...	...	13	1	1	2	...	...	...	...	...	2	2	1	...	2	...	...
1,000 to 2,499 employees.....	2	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Baker:																					
1 to 19 employees.....	42	6	...	...	...	34	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1
20 to 99 employees.....	5	2	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Benton:																					
1 to 19 employees.....	121	9	...	...	...	101	1	1	4	...	...	...	...	3	...	1	1	...	...	...	...
20 to 99 employees.....	26	2	...	...	...	19	...	1	1	...	...	...	...	1	...	1	1	...	...	...	...
100 employees and over.....	3	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Clackamas:																					
1 to 19 employees.....	241	11	...	1	...	182	4	...	5	3	...	...	1	9	2	7	11	...	2	...	3
20 to 99 employees.....	36	...	...	...	1	26	...	2	1	1	...	...	...	...	1	2	...	1	...	...	1
100 employees and over.....	7	...	...	...	...	2	...	4	...	...	...	...	...	1	...	...	...	...	...	...	...
Clatsop:																					
1 to 19 employees.....	79	12	...	...	...	55	1	...	3	1	...	...	1	1	1	...	2	...	2	...	...
20 to 99 employees.....	15	7	...	...	...	5	...	...	1	1	...	...	...	...	...	...	...	...	1	...	...
100 employees and over.....	11	4	...	...	...	6	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
Columbia:																					
1 to 19 employees.....	92	3	...	...	...	77	...	1	3	1	...	...	...	...	...	1	3	1	1	...	1
20 to 99 employees.....	14	2	...	...	...	8	...														

## MANUFACTURES—AREA STATISTICS

Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954—Continued  
(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Lane:																					
1 to 19 employees.....	568	27	...	...	2	475	1	...	18	2	...	2	...	7	4	7	14	1	1	1	6
20 to 99 employees.....	104	13	...	...	...	83	...	...	1	1	...	...	...	1	...	1	4	...	...	...	...
100 employees and over.....	28	2	...	...	...	23	...	2	1	...	...	...	...	...	...	...	...	...	...	...	...
Lincoln:																					
1 to 19 employees.....	172	6	...	...	...	154	...	...	5	...	...	...	...	2	...	...	2	...	2	...	1
20 to 99 employees.....	17	...	...	...	...	17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Linn:																					
1 to 19 employees.....	204	14	...	1	1	166	1	1	10	...	...	...	...	3	1	...	4	1	...	...	1
20 to 99 employees.....	38	5	...	1	...	28	1	1	2	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	15	1	...	...	...	13	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
Malheur:																					
1 to 19 employees.....	17	7	...	...	...	1	...	...	3	...	...	...	...	5	...	...	1	...	...	...	...
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	3	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Marion:																					
1 to 19 employees.....	206	29	...	...	1	117	2	...	18	2	...	...	3	9	1	7	10	2	2	...	3
20 to 99 employees.....	41	14	...	4	...	15	...	1	1	1	...	...	...	...	...	2	2	1	...	...	...
100 employees and over.....	9	4	...	...	...	2	...	2	1	...	...	...	...	...	...	...	...	...	...	...	...
Morrow:																					
1 to 19 employees.....	5	1	...	...	...	2	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Multnomah:																					
1 to 19 employees.....	842	97	...	4	35	96	51	10	130	41	6	6	12	25	21	88	105	11	26	13	65
20 to 99 employees.....	259	60	...	1	14	24	8	8	20	14	4	3	2	7	18	31	20	8	5	2	10
100 employees and over.....	79	20	...	3	5	14	3	4	2	2	...	...	...	...	4	8	6	1	4	...	3
Polk:																					
1 to 19 employees.....	93	3	...	...	...	79	1	...	2	...	...	...	1	2	...	...	3	...	1	...	1
20 to 99 employees.....	13	3	...	...	...	9	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
100 employees and over.....	7	1	...	1	...	4	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
Tillamook:																					
1 to 19 employees.....	148	14	...	...	...	128	...	...	3	1	...	...	...	...	...	2	...	...	...	...	...
20 to 99 employees.....	20	2	...	...	...	18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	6	1	...	...	...	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Umatilla:																					
1 to 19 employees.....	41	5	...	...	...	20	1	...	5	...	...	...	1	1	...	4	3	...	...	...	1
20 to 99 employees.....	19	11	...	...	...	5	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	7	2	...	1	...	3	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
Union:																					
1 to 19 employees.....	49	6	...	...	...	36	...	...	3	1	...	...	...	1	...	1	...	...	...	...	1
20 to 99 employees.....	8	1	...	...	...	6	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Wallowa:																					
1 to 19 employees.....	27	4	...	...	...	20	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Wasco:																					
1 to 19 employees.....	31	7	...	...	...	21	...	...	2	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	9	2	...	...	...	5	...	...	1	...	...	...	...	...	...	...	...	...	1	...	...
100 employees and over.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Washington:																					
1 to 19 employees.....	165	19	...	...	4	120	2	...	3	2	...	1	...	2	1	3	5	1	...	...	2
20 to 99 employees.....	18	4	...	...	...	7	...	2	2	...	...	...	1	1	...	...	...	...	...	1	...
100 employees and over.....	6	3	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1	...	1	...
Wheeler:																					
1 to 19 employees.....	3	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	4	...	...	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Yamhill:																					
1 to 19 employees.....	131	11	...	...	...	110	...	...	4	1	...	...	...	3	...	...	1	...	...	...	1
20 to 99 employees.....	15	4	...	...	1	8	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	4	...	...	...	...	3	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...

# PENNSYLVANIA (67 COUNTIES)



## STANDARD METROPOLITAN AREAS

CODE	NAME
1	ALLENTOWN - BETHLEHEM - EASTON
2	ALTOONA
3	ERIE
4	HARRISBURG
5	JOHNSTOWN
6	LANCASTER
7	PHILADELPHIA
8	PITTSBURGH
9	READING
10	SCRANTON
11	WILKES-BARRE-HAZLETON
12	YORK
13	YOUNGSTOWN, OHIO

## LEGEND

- PLACES OF 25,000 TO 100,000
- ★ PLACES OF 100,000 AND OVER
- ▨ STANDARD METROPOLITAN AREAS



## MANUFACTURES—AREA STATISTICS

Table 1.—MANUFACTURING EMPLOYMENT AT OPERATING ESTABLISHMENTS AND CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARIES FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS

(This table includes data for all manufacturing employees including those located in central administrative offices and auxiliaries. Tables 2-7 in this report include data for operating establishments only. For explanation of column captions see Introduction)

State, standard metropolitan areas, and year <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	(Number)	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
Pennsylvania:						
1954.....	1,472,695	5,911,267	1,421,673	5,569,345	51,022	341,922
1953 <sup>2</sup> .....	1,591,505	6,288,730	1,549,081	6,078,694	42,424	210,036
1952 <sup>2</sup> .....	1,535,129	5,668,972	1,500,035	5,499,084	<sup>3</sup> 35,094	<sup>3</sup> 169,888
1951 <sup>2</sup> .....	1,520,358	5,392,269	1,485,264	5,222,381	35,094	169,888
1950 <sup>2</sup> .....	1,446,065	4,542,771	1,421,418	4,439,023	24,647	103,748
1949 <sup>2</sup> .....	1,383,262	4,162,985	1,348,067	4,017,253	35,195	145,732
1954						
Standard metropolitan areas:						
Allentown-Bethlehem-Easton <sup>4</sup> .....	94,121	353,338	90,265	323,179	3,856	30,159
Altoona <sup>5</sup> .....	8,460	26,156	8,417	25,939	43	217
Erie <sup>6</sup> .....	40,647	173,049	40,488	171,969	159	1,080
Harrisburg <sup>7</sup> .....	32,217	109,550	31,681	106,923	536	2,627
Johnstown <sup>8</sup> .....	23,431	84,113	23,227	82,667	204	1,446
Lancaster <sup>9</sup> .....	43,681	157,769	42,545	150,619	1,136	7,150
Philadelphia <sup>10</sup> .....	564,172	2,403,375	547,042	2,291,639	17,130	111,736
Pittsburgh <sup>11</sup> .....	331,570	1,557,667	303,408	1,364,413	28,162	193,254
Reading <sup>12</sup> .....	49,436	169,157	49,130	167,369	306	1,788
Scranton <sup>13</sup> .....	31,561	94,655	31,478	94,351	83	304
Wilkes-Barre-Hazleton <sup>14</sup> .....	37,262	98,864	36,902	97,448	360	1,416
York <sup>15</sup> .....	45,390	162,153	45,275	161,621	115	532
Youngstown <sup>16</sup> .....	106,275	483,973	105,646	479,748	629	4,225

<sup>1</sup>Employment data for administrative offices and auxiliaries on a State basis are not available for the years prior to 1949. Similar data for standard metropolitan areas are available only for 1954.<sup>2</sup>The employment figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period. The employment figures for administrative and auxiliary units were compiled chiefly from Bureau of Old-Age Survivors Insurance records and are not strictly comparable with the figures for these units that were collected by the Bureau of the Census for the year 1954.<sup>3</sup>The 1951 data are shown for 1952 since auxiliary and administrative unit data were not collected in 1952.<sup>4</sup>The Allentown-Bethlehem-Easton Standard Metropolitan Area consists of Lehigh and Northampton Counties, Pennsylvania; Warren County, New Jersey.<sup>5</sup>The Altoona Standard Metropolitan Area consists of Blair County, Pennsylvania.<sup>6</sup>The Erie Standard Metropolitan Area consists of Erie County, Pennsylvania.<sup>7</sup>The Harrisburg Standard Metropolitan Area consists of Cumberland and Dauphin Counties, Pennsylvania.<sup>8</sup>The Johnstown Standard Metropolitan Area consists of Cambria and Somerset Counties, Pennsylvania.<sup>9</sup>The Lancaster Standard Metropolitan Area consists of Lancaster County, Pennsylvania.<sup>10</sup>The Philadelphia Standard Metropolitan Area consists of Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties, Pennsylvania; Burlington, Camden, and Gloucester Counties, New Jersey.<sup>11</sup>The Pittsburgh Standard Metropolitan Area consists of Allegheny, Beaver, Washington, and Westmoreland Counties, Pennsylvania.<sup>12</sup>The Reading Standard Metropolitan Area consists of Berks County, Pennsylvania.<sup>13</sup>The Scranton Standard Metropolitan Area consists of Lackawanna County, Pennsylvania.<sup>14</sup>The Wilkes-Barre-Hazleton Standard Metropolitan Area consists of Luzerne County, Pennsylvania.<sup>15</sup>The York Standard Metropolitan Area consists of York County, Pennsylvania.<sup>16</sup>The Youngstown Standard Metropolitan Area consists of Mercer County, Pennsylvania; Mahoning and Trumbull Counties, Ohio.

Table 2.—GENERAL STATISTICS FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Year	Establish- ments, number	All employees		Production workers		Value added by manufacture (\$1,000)			
		Number	Payroll (\$1,000)	Number	Wages (\$1,000)				
PENNSYLVANIA									
1954 <sup>1</sup> .....	18,795	1,421,673	5,569,345	1,137,241	4,012,932	9,930,486			
1953 <sup>2</sup> .....	}	1,549,081	6,078,694	1,278,772	4,603,268	10,793,641			
1952 <sup>2</sup> .....		1,500,035	5,499,084	1,236,527	4,133,466	9,679,964			
1951 <sup>2</sup> .....		1,485,264	5,222,381	1,236,319	3,987,293	9,421,770			
1950 <sup>2</sup> .....		1,421,418	4,439,023	1,180,447	3,364,920	8,123,994			
1949 <sup>2</sup> .....		}	1,348,067	4,017,253	1,113,965	2,993,998	6,941,473		
1947.....	1,441,697		3,925,171	1,221,395	3,057,647	6,926,055			
1939.....	1,015,773		1,356,236	853,371	997,582	2,476,862			
1937.....	1,076,958		1,459,971	954,340	1,176,957	2,664,410			
1935.....	919,921		1,046,562	814,670	816,022	1,870,467			
1933.....	12,093	}	(NA)	(NA)	{	716,598	599,591	1,454,489	
1931.....	14,774		(NA)	778,735		845,607	1,991,215		
1929.....	16,947		1,154,910	1,749,287		1,014,046	1,379,444	3,430,606	
1927.....	17,314		}	(NA)		{	987,414	1,315,993	2,987,502
1925.....	17,298						999,460	1,324,481	3,011,248
1923.....	19,054	}	(NA)	{	1,095,057	1,434,963	3,061,178		
1921.....	20,290				863,917	1,006,856	2,098,250		
1919.....	26,614				1,290,204	1,732,913	1,130,612	1,399,201	3,092,976
1914.....	27,251				1,030,733	671,103	922,875	526,668	1,140,995
1909.....	27,563				972,428	566,524	877,543	455,627	1,044,182
1904.....	23,495	829,363	441,230	763,282	367,961	812,609			
1899.....	23,462	707,895	343,022	663,960	296,877	691,581			
ALLENTOWN-BETHLEHEM-EASTON STANDARD METROPOLITAN AREA									
1954 <sup>1</sup> .....	1,007	90,265	323,179	74,271	239,744	593,489			
1947.....	898	88,614	222,372	76,351	177,547	360,669			
1939.....	662	67,583	80,781	59,181	62,891	158,236			
1929.....	783	72,461	107,132	64,919	86,508	216,477			
1919.....	1,169	(NA)	(NA)	64,972	72,379	180,335			
ERIE STANDARD METROPOLITAN AREA									
1954 <sup>1</sup> .....	422	40,488	171,969	31,786	122,133	286,397			
1947.....	368	46,285	134,693	38,076	103,640	224,906			
1939.....	296	22,794	33,380	19,216	24,985	72,110			
1929.....	366	27,352	45,082	23,022	33,568	91,258			
1919.....	455	(NA)	(NA)	22,944	28,930	70,441			
LANCASTER STANDARD METROPOLITAN AREA									
1954 <sup>1</sup> .....	612	42,545	150,619	34,663	110,273	288,553			
1947.....	(NA)	39,139	(NA)	(NA)	(NA)	177,965			
PHILADELPHIA STANDARD METROPOLITAN AREA									
1954 <sup>1</sup> .....	8,079	547,042	2,291,639	419,932	1,564,348	4,023,700			
1947.....	7,394	531,809	1,530,678	436,996	1,139,148	2,772,649			
1939.....	5,756	393,561	535,590	320,627	385,782	1,037,292			
1929.....	7,136	428,914	663,047	367,784	497,430	1,396,529			
1919.....	11,673	(NA)	(NA)	465,487	567,866	1,303,034			
PITTSBURGH STANDARD METROPOLITAN AREA									
1954 <sup>1</sup> .....	2,381	303,408	1,364,413	239,450	995,118	2,480,530			
1947.....	2,227	337,928	1,023,833	283,985	807,101	1,704,327			
1939.....	1,905	229,353	357,044	191,278	270,370	640,908			
1929.....	2,544	248,607	423,336	216,481	338,023	835,162			
1919.....	3,796	(NA)	(NA)	244,991	366,325	803,556			

See footnotes at end of table.

## MANUFACTURES—AREA STATISTICS

Table 2.—GENERAL STATISTICS FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES:  
1954 AND EARLIER YEARS--Continued

Year	Establish- ments, number	All employees		Production workers		Value added by manufacture (\$1,000)
		Number	Payroll (\$1,000)	Number	Wages (\$1,000)	
READING STANDARD METROPOLITAN AREA						
1954 <sup>1</sup> .....	669	49,130	167,369	41,468	126,928	294,269
1947.....	616	53,024	135,843	46,373	110,795	230,161
1939.....	493	46,124	53,975	40,537	41,612	83,782
1929.....	567	47,525	67,817	43,487	56,302	117,936
1919.....	1,031	(NA)	(NA)	41,072	39,910	81,355
YORK STANDARD METROPOLITAN AREA						
1954 <sup>1</sup> .....	624	45,275	161,621	36,004	113,768	282,942
1947.....	599	42,117	101,061	35,746	76,865	189,999
1939.....	455	29,909	30,224	27,114	24,246	66,435
1929.....	586	33,480	37,891	30,331	29,934	88,991
1919.....	1,023	(NA)	(NA)	27,117	23,680	57,243
YOUNGSTOWN STANDARD METROPOLITAN AREA						
1954 <sup>1</sup> .....	723	105,646	479,748	88,386	374,054	873,610
1947.....	554	109,021	331,712	94,606	274,351	569,388
1939.....	429	67,461	110,720	63,010	94,861	200,320
1929.....	496	74,600	139,583	66,515	118,047	273,627
1919.....	764	(NA)	(NA)	63,830	114,650	208,200

NA Not available.

<sup>1</sup>The 1954 figures include data for establishments engaged in the processing and distribution of fluid milk, Industry Group 202, Dairy Products. These establishments were not included in the figures for the Annual Survey years 1949-1953 or earlier Census years. In addition, the 1954 Census and Annual Survey years include data for Logging camps and contractors, Industry 2411, which were not included within the scope of the 1947 Census. See footnotes to Table 4 for comparable 1954 and 1947 totals. There were also a number of changes in the definition of manufacturing industries during earlier Census years that affect the comparability of the historical series. Among the more important of these were: figures for 1935 and later years exclude data for "Railroad repair shops" and "Manufactured gas" which were included in 1899-1933 figures; the minimum size of establishment included for 1954 and 1947 was one employee, for 1939-1921 manufacturing establishments reporting value of shipments of \$5,000 or more were within scope whereas for 1919 and earlier years the cut-off was \$500. (This change in procedure has not appreciably affected the comparability of the historical data except for the figures on number of establishments.)

<sup>2</sup>The employment and payroll figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period.



Table 3.--GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
Pennsylvania, total.....	10,498,012	18,795	1,421,673	5,569,345	1,137,241	2,186,993	4,012,932	9,930,486	619,147	1,441,697	16,926,055
STANDARD METROPOLITAN AREAS											
Allentown-Bethlehem- Easton area.....	437,824	1,007	90,265	323,179	74,271	140,359	239,744	593,489	43,417	88,614	360,669
Portion in Pennsylvania...	343,450	889	80,214	285,035	66,267	124,246	211,741	522,430	40,943	79,484	319,218
Portion in New Jersey.....	54,374	118	10,051	38,144	8,004	16,113	28,003	71,059	2,474	9,130	41,451
Altoona area.....	139,514	137	8,417	25,939	6,836	13,161	18,904	47,007	4,861	8,423	33,152
Erie area.....	219,388	422	40,488	171,969	31,786	62,089	122,133	286,397	13,882	46,285	224,906
Harrisburg area.....	292,241	408	31,681	106,923	26,180	48,667	78,778	188,032	11,939	30,884	144,585
Johnstown area.....	291,354	320	23,227	82,667	19,582	33,433	63,862	121,772	7,336	23,704	99,626
Lancaster area.....	234,717	612	42,545	150,619	34,663	68,491	110,273	288,553	16,059	39,139	177,965
Philadelphia area.....	3,671,048	8,079	547,042	2,291,639	419,932	827,015	1,564,348	4,023,700	275,789	531,809	2,772,649
Portion in Pennsylvania...	3,142,668	7,164	477,922	1,990,862	364,971	718,667	1,351,391	3,484,429	226,028	468,170	2,438,561
Portion in New Jersey.....	528,380	915	69,120	300,777	54,961	108,348	212,957	539,271	49,761	63,639	334,088
Pittsburgh area.....	2,213,236	2,381	303,408	1,364,413	239,450	454,510	995,118	2,480,530	164,002	337,928	1,704,327
Reading area.....	255,740	669	49,130	167,369	41,468	78,141	126,928	294,269	17,415	53,024	230,161
Scranton area.....	257,396	481	31,478	94,351	26,936	50,739	73,219	164,764	12,896	24,999	83,960
Wilkes-Barre-Hazleton area...	392,241	632	36,902	97,448	32,866	59,382	79,839	156,328	5,273	35,676	126,165
York area.....	202,737	624	45,275	161,621	36,004	73,779	113,768	282,942	18,262	42,117	189,999
Youngstown area.....	528,498	723	105,646	479,748	88,386	166,522	374,054	873,610	49,129	109,021	569,388
Portion in Pennsylvania...	111,954	145	19,391	88,613	15,257	28,022	64,472	187,613	7,006	20,986	123,527
Portion in Ohio.....	416,544	578	86,255	391,134	73,128	138,500	309,312	685,996	42,122	88,035	445,861
COUNTIES											
Adams.....	44,197	106	5,570	14,800	4,990	9,910	11,569	24,825	1,379	5,114	17,229
Allegheny.....	1,515,237	1,680	194,898	889,005	150,178	284,914	628,904	1,653,928	106,697	222,460	1,139,275
Armstrong.....	80,842	100	6,628	29,390	5,511	10,848	23,445	74,470	2,111	7,666	74,896
Beaver.....	175,192	194	47,005	210,626	38,833	73,622	162,453	394,118	26,833	44,428	233,149
Bedford.....	40,775	59	1,045	2,352	932	1,591	1,961	3,609	128	885	2,338
Berks.....	255,740	669	49,130	167,369	41,468	78,141	126,928	294,269	17,415	53,024	230,161
Blair.....	139,514	137	8,417	25,939	6,836	13,161	18,904	47,007	4,861	8,423	33,152
Bradford.....	51,722	61	4,256	13,820	3,419	6,408	9,913	29,177	1,092	4,005	17,937
Bucks.....	144,620	437	35,584	153,950	27,415	56,478	110,161	262,728	15,800	17,136	73,685
Butler.....	97,320	137	10,146	42,787	8,530	16,165	33,344	88,708	3,662	9,530	45,466
Cambria.....	209,541	180	20,867	77,628	17,496	29,941	59,810	113,224	6,645	22,249	95,796
Cameron.....	7,023	11	1,771	(D)	1,360	(D)	(D)	(D)	(D)	1,806	5,216
Carbon.....	57,558	108	7,348	20,418	6,402	11,306	16,162	35,696	1,116	7,360	34,515
Centre.....	65,922	87	3,723	12,564	3,034	5,915	9,093	32,078	1,469	4,029	17,816
Chester.....	159,141	289	19,660	81,743	15,739	31,881	58,077	142,928	14,260	17,230	83,933
Clarion.....	38,344	80	2,246	8,089	1,954	3,821	6,562	16,020	687	1,840	10,250
Clearfield.....	85,957	146	5,487	17,714	4,676	8,729	14,006	28,384	1,072	5,060	20,350
Clinton.....	36,532	63	5,740	20,528	4,728	9,467	15,599	36,814	1,492	5,430	26,452
Columbia.....	53,460	115	10,307	34,661	8,481	16,879	27,254	48,067	2,591	10,089	46,843
Crawford.....	78,948	136	9,452	37,073	7,160	13,843	25,898	66,867	3,107	10,378	50,083
Cumberland.....	94,457	135	7,725	24,170	6,278	11,823	16,759	47,070	3,221	7,695	30,278
Dauphin.....	197,784	273	23,956	82,753	19,902	36,844	62,019	140,962	8,718	23,189	114,307
Delaware.....	414,234	393	52,883	256,548	39,067	78,735	173,805	428,141	43,863	48,358	266,657
Elk.....	34,503	63	7,263	26,545	5,936	11,563	19,362	47,834	3,851	6,839	28,607
Erie.....	219,388	422	40,488	171,969	31,786	62,089	122,133	286,397	13,882	46,285	224,906
Fayette.....	189,899	172	7,258	22,933	6,086	11,390	17,460	41,294	1,617	9,568	48,912
Forest.....	4,944	13	484	1,630	447	898	1,489	3,361	170	613	(D)
Franklin.....	75,927	126	9,064	28,266	7,856	15,376	22,965	51,866	2,332	9,204	34,856
Fulton.....	10,387	23	165	247	154	250	233	439	25	80	(D)
Greene.....	45,394	31	645	1,442	578	1,085	1,175	2,208	72	305	1,177
Huntingdon.....	40,872	72	3,139	9,726	2,666	4,966	7,867	16,511	716	3,899	13,102
Indiana.....	77,106	82	2,787	8,814	2,232	4,137	6,458	15,082	607	1,991	7,729
Jefferson.....	49,147	99	4,878	15,253	4,165	7,843	12,197	32,148	885	3,413	14,747
Juniata.....	15,243	44	681	1,659	630	1,165	1,448	2,788	51	803	1,854
Lackawanna.....	257,396	481	31,478	94,351	26,936	50,739	73,219	164,764	12,896	24,999	83,960
Lancaster.....	234,717	612	42,545	150,619	34,663	68,491	110,273	288,553	16,059	39,139	177,965
Lawrence.....	105,120	142	13,997	60,214	11,599	22,350	46,248	105,761	3,629	16,557	77,733
Lebanon.....	81,683	182	12,248	39,600	10,568	19,827	30,630	68,252	3,099	13,391	49,441
Lehigh.....	198,207	479	33,458	116,251	27,393	52,984	84,041	209,871	7,890	35,720	148,372
Luzerne.....	392,241	632	36,902	97,448	32,866	59,382	79,839	156,328	5,273	35,676	126,165
Lycoming.....	101,249	236	17,953	61,071	15,051	29,688	45,949	106,455	3,502	15,335	58,645
McKean.....	56,607	126	7,190	26,195	5,711	11,646	18,636	48,490	3,564	6,271	33,089
Mercer.....	111,954	145	19,391	88,613	15,257	28,022	64,742	187,613	7,006	20,986	123,527
Mifflin.....	43,691	64	6,310	23,100	5,340	10,242	18,719	33,832	1,818	7,243	32,055
Monroe.....	33,773	106	4,119	13,376	3,487	6,366	10,509	21,191	1,105	3,742	17,339
Montgomery.....	353,068	831	60,003	247,459	47,575	94,360	176,123	435,514	39,616	57,121	284,145

See footnotes at end of table.

## MANUFACTURES—AREA STATISTICS

Table 3.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947--Continued  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
Montour.....	16,001	18	1,746	6,400	1,406	3,050	4,787	14,877	298	1,225	3,758
Northampton.....	185,243	410	46,756	168,784	38,874	71,262	127,698	312,557	33,053	43,764	170,846
Northumberland.....	117,115	172	12,984	38,442	11,101	20,578	29,658	72,150	4,667	14,325	58,016
Perry.....	24,782	54	1,104	2,711	1,013	1,681	2,258	5,234	180	913	3,351
Philadelphia <sup>2</sup> .....	2,071,605	5,214	309,792	1,251,162	235,175	457,213	833,225	2,215,118	112,489	328,325	1,730,141
Pike.....	8,425	19	296	(D)	231	(D)	(D)	(D)	(D)	165	655
Potter.....	16,810	44	605	1,748	518	1,023	1,345	2,518	74	1,033	2,765
Schuylkill.....	200,577	276	18,662	48,957	16,559	30,498	39,810	83,539	12,048	16,631	49,773
Snyder.....	22,912	64	1,768	4,446	1,633	3,371	3,831	6,977	358	1,465	4,724
Somerset.....	81,813	140	2,360	5,039	2,086	3,492	4,052	8,548	691	1,455	3,830
Sullivan.....	6,745	22	677	1,581	612	1,177	1,346	2,409	315	389	1,050
Susquehanna.....	31,970	54	2,267	6,702	1,888	3,803	5,100	11,139	297	1,038	3,724
Tioga.....	35,474	45	3,197	11,075	2,859	5,649	9,278	19,059	1,745	3,456	20,223
Union.....	23,150	37	1,402	3,497	1,265	2,530	2,954	5,935	257	1,425	3,895
Venango.....	65,328	107	7,252	27,555	5,660	10,535	20,333	55,017	3,614	8,576	49,414
Warren.....	42,698	96	4,898	19,424	3,872	7,814	14,214	39,063	1,576	5,070	24,540
Washington.....	209,628	165	21,687	93,080	18,516	35,762	74,972	156,954	9,107	21,727	97,876
Wayne.....	28,478	81	2,354	6,372	2,197	4,277	5,680	8,896	376	1,973	6,237
Westmoreland.....	313,179	342	39,818	171,704	31,924	60,213	128,790	275,530	21,366	49,313	234,027
Wyoming.....	16,766	32	628	1,327	568	1,008	1,143	1,963	148	748	2,816
York.....	202,737	624	45,275	161,621	36,004	73,779	113,768	282,942	18,262	42,117	189,999
CITIES WITH 10,000 INHAB- ITANTS OR MORE											
Aliquippa.....	26,132	26	12,759	(D)	11,071	(D)	(D)	(D)	(D)	11,875	(D)
Allentown.....	106,756	302	21,693	76,247	17,828	34,691	55,495	138,919	4,146	24,192	103,846
Altoona.....	77,177	70	4,378	12,969	3,355	6,462	8,532	25,043	1,614	4,837	18,549
Ambridge.....	16,429	15	10,146	47,922	8,745	17,722	39,766	93,891	2,943	7,946	41,733
Arnold.....	10,263	9	1,531	6,736	1,261	2,392	5,437	11,301	360	3,380	(D)
Beaver Falls.....	17,375	32	2,561	10,509	2,084	4,010	7,806	17,449	1,517	2,601	13,632
Berwick.....	14,010	33	5,352	18,830	4,074	8,066	14,298	24,303	1,338	5,705	26,909
Bethel.....	11,324	4	44	72	38	66	61	97	9	(NA)	(NA)
Bethlehem.....	66,340	100	26,039	101,820	20,640	36,436	74,036	179,781	23,870	24,690	93,068
Bloomsburg.....	10,633	31	3,102	10,773	2,726	5,548	8,608	17,293	1,030	(NA)	(NA)
Braddock.....	16,488	18	970	3,701	715	1,222	2,630	5,442	268	1,203	4,943
Bradford.....	17,354	41	3,505	13,584	2,615	5,282	9,064	25,164	1,647	2,615	14,412
Brentwood.....	12,535	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Bristol.....	12,710	41	10,429	52,037	7,478	17,030	35,815	69,513	661	5,053	24,837
Butler.....	23,482	42	2,958	10,681	2,500	4,298	8,135	21,107	458	3,428	17,040
Canonsburg.....	12,072	19	3,027	12,763	2,412	4,795	9,123	24,221	1,247	2,508	10,582
Carbondale.....	16,296	30	1,508	4,253	1,259	2,336	3,109	6,060	203	1,551	4,515
Carlisle.....	16,812	32	4,005	13,396	3,279	6,255	9,364	26,068	1,026	3,800	16,789
Carnegie.....	12,105	19	928	4,201	673	1,270	2,538	9,012	289	818	5,382
Chambersburg.....	17,212	42	3,303	9,668	2,915	5,422	7,797	15,606	576	3,778	10,613
Chester.....	66,039	83	11,296	54,013	9,344	19,088	41,682	97,579	3,953	9,442	61,940
Clairton.....	19,652	13	6,246	(D)	4,948	(D)	(D)	(D)	(D)	6,704	45,617
Coatesville.....	13,826	27	5,399	(D)	4,111	(D)	(D)	(D)	(D)	5,830	(D)
Columbia.....	11,993	43	2,874	9,232	2,584	5,042	7,828	15,725	470	3,069	12,994
Connellsville.....	13,293	25	1,068	2,989	939	1,901	2,377	4,805	82	530	1,843
Conshohocken.....	10,922	28	3,634	15,905	2,850	5,272	11,898	29,176	1,680	4,531	20,442
Coraopolis.....	10,498	11	1,597	8,376	1,268	2,540	6,077	14,347	420	2,101	11,902
Darby.....	13,154	19	770	2,949	547	1,025	1,406	4,806	96	315	1,320
Donora.....	12,186	13	4,314	(D)	3,780	(D)	(D)	(D)	(D)	5,084	(D)
Dormont.....	13,405	7	91	233	32	64	95	326	13	(D)	(D)
Du Bois.....	11,497	19	1,406	4,905	1,159	2,253	3,702	10,425	233	785	3,815
Dunmore.....	20,305	20	1,486	3,770	1,338	2,458	2,997	6,779	190	986	3,485
Duquesne.....	17,620	8	4,976	(D)	4,025	(D)	(D)	(D)	(D)	7,858	(D)
Easton.....	35,632	90	5,627	17,124	4,866	8,441	12,965	27,131	1,301	7,287	26,037
Ellwood City.....	12,945	32	4,535	19,968	3,662	6,723	14,609	34,848	1,099	5,787	31,891
Erie.....	13,848	283	23,683	100,005	17,943	34,921	68,071	162,873	10,179	24,976	129,058
Farrell.....	13,644	11	4,630	(D)	4,203	(D)	(D)	(D)	(D)	5,217	(D)
Franklin.....	10,006	18	2,452	9,628	1,788	3,382	6,762	21,262	724	(NA)	(NA)
Greensburg.....	16,923	39	926	3,810	724	1,429	2,594	5,728	333	1,005	4,309
Hanover.....	14,048	91	5,501	15,363	4,863	9,765	12,151	26,461	1,072	5,475	21,358
Harrisburg.....	89,544	145	10,144	37,525	7,989	15,677	26,470	61,214	2,492	8,670	35,863
Hazleton.....	35,491	80	5,471	13,528	4,916	8,706	11,185	18,417	584	6,648	24,111
Homestead.....	10,046	6	65	249	50	72	177	340	41	209	773
Indiana.....	11,743	20	594	2,029	414	769	1,426	3,960	64	755	2,947
Jeannette.....	16,172	32	4,614	19,799	3,490	7,078	13,851	30,510	1,969	7,973	38,066

See footnotes at end of table.



Table 3.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
Johnstown.....	63,232	85	18,256	71,601	15,153	25,737	54,856	103,294	6,172	20,170	89,463
Kingston.....	21,096	37	3,181	8,494	2,774	5,080	6,602	15,585	769	3,125	10,327
Lancaster.....	63,774	199	20,764	82,593	16,148	32,104	58,566	158,849	9,197	16,617	84,115
Lansdowne.....	12,169	14	406	1,572	331	695	1,216	2,715	293	657	3,963
Latrobe.....	11,811	23	4,225	18,167	3,186	5,966	12,363	36,783	1,530	3,618	19,426
Lebanon.....	28,156	86	7,971	27,210	6,867	12,743	21,020	43,643	2,017	9,073	32,415
Lewistown.....	13,894	20	1,141	3,140	945	1,712	2,354	5,348	229	649	1,932
Lock Haven.....	11,381	26	3,543	13,464	3,101	6,438	10,847	20,947	957	3,489	18,683
McKeesport.....	51,502	46	12,379	55,318	9,807	18,462	40,566	89,481	4,663	12,087	48,631
McKees Rocks.....	16,241	37	3,058	10,414	2,380	3,869	6,944	15,827	585	8,585	35,417
Mahanoy City.....	10,934	13	1,068	2,615	984	1,808	2,202	3,899	43	985	3,186
Meadville.....	18,972	32	4,172	16,715	2,817	5,359	10,248	22,394	929	1,429	7,003
Monessen.....	17,896	11	5,323	(D)	4,585	(D)	(D)	(D)	(D)	6,674	(D)
Mount Carmel.....	14,222	14	1,104	2,447	1,018	1,928	2,185	4,358	184	1,040	2,585
Munhall.....	16,437	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	11,818	(D)
Nanticoke.....	20,160	20	1,090	2,002	1,000	1,632	1,796	3,919	39	1,781	5,877
New Castle.....	48,834	63	7,199	31,081	6,006	11,749	24,383	50,499	1,878	7,755	30,445
New Kensington.....	25,146	25	5,224	22,256	3,986	7,426	15,873	28,604	1,873	5,604	27,926
Norristown.....	38,126	74	3,363	12,271	2,630	5,224	8,269	21,482	573	4,138	21,187
North Braddock.....	14,724	4	5,273	(D)	4,296	(D)	(D)	(D)	(D)	5,656	(D)
Oil City.....	19,581	23	2,585	9,478	1,996	3,410	6,796	13,960	714	2,809	11,355
Philadelphia.....	2,071,605	5,214	309,792	1,251,161	235,174	457,212	833,224	2,215,118	112,489	328,325	1,730,141
Phoenixville <sup>2</sup> .....	12,932	28	3,077	11,736	2,584	4,853	8,664	14,488	5,163	2,566	9,796
Pittsburg.....	676,806	1,078	72,502	314,557	53,829	102,158	210,333	560,483	24,096	80,991	418,755
Pittston.....	15,012	42	2,312	5,140	2,113	3,535	4,402	6,747	472	1,177	2,790
Plymouth.....	13,021	17	595	1,496	513	884	1,112	2,323	50	757	2,424
Pottstown.....	22,589	67	7,650	32,720	6,184	12,060	24,170	50,720	2,453	9,016	42,463
Pottsville.....	23,640	36	2,799	7,367	2,462	4,573	6,088	15,994	8,519	3,878	13,343
Reading.....	109,320	312	22,203	77,858	18,324	35,054	57,818	145,175	7,320	21,111	115,436
Scranton.....	125,536	272	18,697	57,880	15,798	29,729	44,696	87,648	11,209	16,604	57,837
Shamokin.....	16,879	37	3,055	7,720	2,647	4,512	6,133	11,967	397	3,835	13,417
Sharon.....	26,454	30	8,659	42,072	6,035	11,084	27,062	116,072	2,722	9,698	61,577
Shenandoah.....	15,704	18	1,318	2,467	1,225	1,710	2,065	3,130	73	1,281	2,743
State College.....	17,227	9	114	427	74	114	235	706	28	(NA)	(NA)
Steelton.....	12,574	12	5,327	(D)	4,418	(D)	(D)	(D)	(D)	6,122	(D)
Sunbury.....	15,570	19	2,110	5,990	1,742	3,078	4,206	12,583	477	3,583	20,582
Swissvale.....	16,488	13	3,995	17,887	2,210	4,160	9,348	26,180	320	3,976	(D)
Tamaqua.....	11,508	14	524	1,151	455	898	923	1,649	76	446	1,116
Turtle Creek.....	12,363	4	7	8	5	11	6	31	...	(NA)	(NA)
Uniontown.....	20,471	36	1,171	3,611	877	1,639	2,181	6,408	506	2,103	9,636
Warren.....	14,849	47	3,170	12,073	2,395	4,843	8,523	26,686	1,274	2,980	15,652
Washington.....	26,280	41	3,360	12,474	2,869	5,340	10,085	19,193	751	3,947	17,318
Waynesboro.....	10,334	28	3,860	13,477	3,205	6,577	10,831	28,561	1,540	4,301	19,772
West Chester.....	15,168	29	2,022	7,025	1,644	3,354	5,006	28,967	553	1,921	12,196
West Mifflin.....	17,985	6	3,521	(D)	2,922	(D)	(D)	(D)	(D)	(NA)	(NA)
Wilkes-Barre.....	76,826	189	13,154	38,211	11,466	20,761	30,363	64,667	1,769	12,025	50,647
Wilkesburg.....	31,418	19	385	1,482	326	641	1,079	2,100	368	275	1,339
Williamsport.....	45,047	107	11,121	39,803	9,064	17,801	29,091	64,209	1,470	10,632	38,480
Yeadon.....	11,068	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
York.....	59,953	238	23,791	94,268	18,075	37,598	63,183	165,606	8,460	24,435	116,816

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>The 1947 data are not strictly comparable with the figures shown for 1954 due to differences in coverage of loggers and fluid milk distributors. See discussion in Introduction and footnotes to Table 4.<sup>2</sup>Philadelphia city is coextensive with Philadelphia County.



## MANUFACTURES—AREA STATISTICS

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947

(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establish- ments, number		All employees		Production workers			Value added by manufacture	Value of shipments	Capital expendi- tures, new	All employees, number	Value added by manufacture
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
	All industries, total <sup>1</sup> ...	18,795	7,631	1,421,673	5,569,345	1,137,241	2,186,993	4,012,932	9,930,486	( <sup>2</sup> )	619,147	1,441,697	3,926,055
20	Food and kindred products..	2,954	900	113,186	416,479	76,075	152,910	242,463	825,920	( <sup>2</sup> )	42,799	( <sup>4</sup> )	( <sup>4</sup> )
201	Meat products.....	346	122	14,680	55,492	10,818	22,373	37,575	80,764	( <sup>2</sup> )	3,129	13,032	61,748
2011	Meat packing plants.....	195	75	9,691	38,996	6,858	14,326	25,712	53,387	( <sup>2</sup> )	1,815	9,148	44,616
2013	Prepared meats.....	92	29	3,139	11,798	2,391	4,879	8,113	18,697	( <sup>2</sup> )	952	3,292	15,122
2015	Poultry dressing plants.....	59	18	1,849	4,697	1,568	3,168	3,749	8,679	( <sup>2</sup> )	361	592	2,010
202	Dairy products.....	779	244	(D)	(D)	(D)	(D)	(D)	(D)	(D)	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
2021	Creamery butter.....	17	4	244	849	151	325	489	1,423	( <sup>2</sup> )	258	( <sup>4</sup> )	( <sup>4</sup> )
2022	Natural cheese.....	21	5	323	959	257	575	704	2,041	( <sup>2</sup> )	76	( <sup>4</sup> )	( <sup>4</sup> )
2024	Ice cream and ices.....	119	39	4,660	17,184	2,829	5,417	8,866	47,215	( <sup>2</sup> )	2,495	( <sup>4</sup> )	( <sup>4</sup> )
2026	Fluid milk.....	129	12	987	3,319	593	1,244	1,803	6,174	( <sup>2</sup> )	480	( <sup>4</sup> )	( <sup>4</sup> )
2027	Fluid milk and other products..	468	176	15,956	63,772	6,732	14,082	22,369	110,947	( <sup>2</sup> )	7,916	( <sup>4</sup> )	( <sup>4</sup> )
203	Canned and frozen foods.....	141	65	9,021	25,926	7,936	15,725	20,296	59,899	( <sup>2</sup> )	3,699	9,027	37,075
2033	Canned fruits and vegetables...	83	47	7,034	20,208	6,277	12,540	16,303	46,585	( <sup>2</sup> )	3,137	7,726	30,649
2035	Pickles and sauces.....	37	8	917	2,869	746	1,417	2,046	6,374	( <sup>2</sup> )	185	581	4,117
204	Grain mill products.....	197	27	2,756	10,100	2,007	4,357	6,326	20,950	( <sup>2</sup> )	1,409	3,456	21,040
2041	Flour and meal.....	56	4	481	1,721	381	851	1,173	2,810	( <sup>2</sup> )	220	723	(D)
2042	Prepared animal feeds.....	135	21	2,104	7,800	1,506	3,275	4,860	15,513	( <sup>2</sup> )	1,133	2,302	14,362
205	Bakery products.....	608	199	27,863	104,909	17,520	35,368	57,263	182,466	( <sup>2</sup> )	5,621	32,107	138,891
2051	Bread and related products.....	542	179	23,153	89,841	13,596	27,740	45,569	139,243	( <sup>2</sup> )	4,544	26,620	112,426
2052	Biscuit and crackers.....	66	20	4,710	15,068	3,924	7,628	11,693	43,223	( <sup>2</sup> )	1,076	5,487	26,465
207	Candy and related products...	199	71	13,564	41,547	11,447	21,871	30,864	99,993	( <sup>2</sup> )	2,968	15,602	105,017
2071	Confectionery products.....	188	62	8,508	23,341	7,282	13,647	17,327	48,884	( <sup>2</sup> )	1,295	9,608	49,854
2072	Chocolate and cocoa products...	6	5	4,225	15,216	3,587	7,080	11,792	43,526	( <sup>2</sup> )	1,553	4,809	45,976
2073	Chewing gum.....	5	4	831	2,990	578	1,143	1,744	7,582	( <sup>2</sup> )	119	1,185	9,187
208	Beverages.....	377	111	13,933	59,628	8,549	16,960	33,228	146,038	( <sup>2</sup> )	9,017	16,692	146,320
2081	Bottled soft drinks.....	329	73	5,338	19,122	2,402	4,466	6,666	37,410	( <sup>2</sup> )	3,246	4,784	23,482
2082	Beer and ale.....	34	30	6,081	30,467	4,202	8,694	19,655	75,386	( <sup>2</sup> )	5,313	7,136	62,601
2085	Distilled liquor.....	11	7	2,467	9,853	1,911	3,745	6,824	32,244	( <sup>2</sup> )	(D)	4,677	59,047
209	Miscellaneous foods.....	305	59	6,201	20,412	4,838	9,840	13,272	42,907	( <sup>2</sup> )	2,707	5,850	32,572
2095	Flavorings.....	28	7	489	1,624	349	632	790	5,095	( <sup>2</sup> )	139	382	2,858
2097	Manufactured ice.....	91	5	521	1,663	416	947	1,325	3,652	( <sup>2</sup> )	136	1,699	9,235
2098	Macaroni and spaghetti.....	14	9	737	2,417	574	1,053	1,438	5,147	( <sup>2</sup> )	329	980	(D)
2099	Food preparations, n.e.c.....	166	36	4,336	14,136	3,414	7,037	9,411	27,599	( <sup>2</sup> )	1,940	(D)	(D)
21	Tobacco manufactures.....	129	63	16,365	39,001	15,260	28,278	34,425	76,305	( <sup>2</sup> )	1,463	19,382	66,310
2121	Cigars.....	103	52	15,359	36,139	14,346	26,489	32,404	72,831	( <sup>2</sup> )	1,006	18,271	62,842
2141	Tobacco stemming and redrying	13	8	739	1,796	690	1,416	1,438	2,135	( <sup>2</sup> )	404	580	(D)
22	Textile mill products.....	1,217	775	100,803	318,797	90,265	171,079	256,097	497,933	( <sup>2</sup> )	21,556	139,348	625,851
221	Woolen and worsted manufac- ture.....	78	59	6,674	23,168	5,877	11,068	17,614	31,353	( <sup>2</sup> )	1,517	15,948	75,953
2211	Scouring and combing plants...	9	6	898	3,545	747	1,465	2,557	4,144	( <sup>2</sup> )	931	3,803	(D)
2212	Yarn mills, wool, exc. carpet...	20	17	1,729	5,192	1,561	2,684	4,082	6,059	( <sup>2</sup> )	390	4,042	14,027
2213	Woolen and worsted fabrics.....	36	27	3,287	11,529	2,929	5,702	8,892	17,104	( <sup>2</sup> )	400	9,351	51,851
2216	Finishing wool textiles.....	13	9	758	2,901	638	1,216	2,082	4,045	( <sup>2</sup> )	(D)	1,624	6,272
222	Yarn and thread mills.....	69	54	6,219	16,908	5,683	11,018	14,053	25,276	( <sup>2</sup> )	1,761	10,858	34,176
2222	Yarn throwing mills.....	55	49	5,484	14,324	5,023	9,804	12,038	21,901	( <sup>2</sup> )	1,321	9,211	26,400
223	Broad-woven fabrics.....	143	110	13,662	43,951	12,575	25,214	37,439	61,136	( <sup>2</sup> )	1,582	19,614	88,084
2233	Cotton broad-woven fabrics.....	36	21	1,826	6,843	1,602	3,127	5,200	9,210	( <sup>2</sup> )	302	3,202	17,012
2234	Synthetic broad-woven fabrics..	107	89	11,836	37,108	10,972	22,086	32,238	51,926	( <sup>2</sup> )	1,280	16,412	71,072
2241	Narrow fabric mills.....	75	46	4,488	13,769	4,012	7,813	10,471	20,032	( <sup>2</sup> )	809	7,014	24,428
225	Knitting mills.....	652	380	41,570	114,177	37,776	69,021	93,063	174,908	( <sup>2</sup> )	6,296	50,651	210,676
2251	Full-fashioned hosiery mills...	343	155	16,190	47,593	14,776	26,540	39,647	68,935	( <sup>2</sup> )	1,925	24,819	124,024
2252	Seamless hosiery mills.....	67	45	4,476	10,289	4,070	7,239	8,312	15,481	( <sup>2</sup> )	886	6,552	17,458
2253	Knit underwear mills.....	112	87	8,772	24,521	8,010	15,178	19,753	38,469	( <sup>2</sup> )	2,078	5,905	20,416
2254	Knit underwear mills.....	66	61	8,456	19,460	7,807	13,855	16,420	31,060	( <sup>2</sup> )	504	10,315	36,358
2256	Knit fabric mills.....	57	29	3,377	11,437	2,867	5,768	8,341	19,575	( <sup>2</sup> )	891	1,995	9,407
2259	Knit mills, n.e.c.....	7	3	296	875	245	439	587	2,749	( <sup>2</sup> )	9	153	(D)
2261	Finishing textiles exc. wool...	51	30	3,949	15,599	3,330	6,860	11,848	20,576	( <sup>2</sup> )	854	5,801	25,373
227	Carpets and rugs.....	68	47	15,049	61,223	12,863	25,274	48,399	118,090	( <sup>2</sup> )	7,701	16,731	111,585
2271	Wool carpets and rugs.....	33	28	8,778	34,199	7,510	14,435	26,140	53,142	( <sup>2</sup> )	(D)	10,488	59,914
228	Hats, except cloth and mil- linery.....	14	10	3,048	10,711	2,786	4,739	8,858	16,041	( <sup>2</sup> )	287	4,897	18,490
2281	Fur-felt hats and hat bodies...	8	6	2,410	9,051	2,213	3,718	7,639	13,608	( <sup>2</sup> )	251	3,676	14,300
2282	Wool-felt hats and hat bodies..	6	4	638	1,660	572	1,020	1,218	2,432	( <sup>2</sup> )	35	(D)	(D)
229	Miscellaneous textile goods..	67	39	6,140	19,289	5,360	10,069	14,350	30,518	( <sup>2</sup> )	745	7,834	37,086
2291	Felt goods, n.e.c.....	6	3	545	2,299	457	960	1,630	4,186	( <sup>2</sup> )	118	354	(D)
2292	Lace goods.....	7	6	1,617	5,058	1,315	2,360	3,588	6,626	( <sup>2</sup> )	154	3,309	17,423
2293	Padding and upholstery filling.	11	8	465	1,564	371	693	1,006	2,706	( <sup>2</sup> )	25	503	1,857
2298	Cordage and twine.....	7	4	488	1,421	428	789	1,006	2,448	( <sup>2</sup> )	24	1,582	(D)
2299	Textile goods, n.e.c.....	20	11	2,688	7,847	2,513	4,749	6,418	13,026	( <sup>2</sup> )	406	(D)	(D)

See footnotes at end of table.

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establish- ments, number		All employees		Production workers			Value added by manufacture	Value of shipments	Capital expendi- tures, new	All employees, number	Value added by manufacture
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
23	Apparel and related prod- ucts.....	2,308	1,521	157,151	374,469	146,298	259,417	319,170	547,914	( <sup>2</sup> )	7,015	141,919	436,617
231	Men's and boys' suit and coats.....	198	127	23,114	71,101	21,232	37,624	59,568	99,450	( <sup>2</sup> )	582	23,843	97,626
2311	Men's and boys' suits and coats	178	114	22,331	68,959	20,497	36,310	57,738	96,757	210,772	546	22,846	(D)
2312	Suit and coat findings.....	20	13	782	2,142	735	1,313	1,830	2,693	6,376	36	(D)	(D)
232	Men's and boys' furnishings..	470	319	43,281	98,860	40,637	72,319	86,723	145,087	( <sup>2</sup> )	1,877	49,555	140,279
2321	Men's dress shirts & nightwear.	153	127	22,616	49,744	21,351	37,200	44,469	74,882	153,072	906	27,261	77,132
2322	Men's and boys' underwear.....	14	9	704	1,338	668	1,140	1,203	1,919	5,218	53	1,254	3,939
2323	Men's and boys' neckwear.....	24	12	726	1,751	681	1,205	1,467	3,343	6,182	22	730	2,339
2325	Men's and boys' cloth hats.....	24	5	364	976	312	591	764	1,635	3,279	17	324	(D)
2327	Separate trousers.....	119	76	9,629	23,884	9,107	16,213	21,226	32,899	58,129	241	11,051	30,705
2329	Men's and boys' clothing, nec..	125	85	8,748	20,252	8,051	15,217	16,785	29,038	56,753	625	7,777	21,151
233	Women's and misses' outerwear	764	600	44,894	96,817	42,444	74,215	84,789	137,846	( <sup>2</sup> )	1,786	30,351	84,968
2331	Blouses.....	221	200	14,314	29,298	13,707	24,385	26,720	41,191	67,719	655	7,548	22,292
2333	Dresses, unit price.....	293	231	15,797	32,896	14,958	25,405	29,245	42,492	65,911	696	11,418	27,231
2334	Dresses, dozen price.....	131	99	8,787	19,498	8,195	14,500	15,873	30,882	60,733	211	7,282	20,056
2337	Women's suits, coats, & skirts.	70	44	3,673	9,652	3,435	6,003	8,305	14,348	22,091	109	2,427	11,259
2339	Women's outerwear, n.e.c.....	43	26	2,289	5,405	2,117	3,865	4,587	8,845	21,435	113	1,620	3,966
234	Women's undergarments.....	176	149	16,929	37,113	15,843	27,331	31,629	51,826	( <sup>2</sup> )	1,193	16,366	43,688
2341	Women's & children's underwear.	149	126	13,094	29,122	12,282	21,083	24,856	40,604	86,369	985	12,986	35,125
2342	Corsets and allied garments....	27	23	3,835	7,990	3,560	6,247	6,772	11,221	14,817	207	3,380	8,563
2351	Millinery.....	22	13	785	2,128	723	1,232	1,762	3,548	6,216	20	516	2,251
236	Children's outerwear.....	222	162	15,564	36,598	14,282	26,197	30,802	55,478	( <sup>2</sup> )	649	10,417	30,108
2361	Children's dresses.....	120	96	9,878	23,154	8,935	16,504	19,318	35,032	66,615	385	7,522	22,871
2363	Children's coats.....	41	32	2,666	6,556	2,506	4,514	5,668	9,906	20,730	140	1,434	3,989
2369	Children's outerwear, n.e.c.....	61	34	3,020	6,887	2,840	5,178	5,815	10,538	21,040	123	1,461	3,248
238	Miscellaneous apparel.....	91	53	5,190	12,337	4,668	8,224	9,232	21,027	( <sup>2</sup> )	278	3,837	11,528
2382	Fabric work gloves.....	8	6	359	779	320	535	585	1,155	2,639	13	501	2,046
2384	Robes and dressing gowns.....	18	14	1,248	2,543	1,184	2,142	2,162	3,432	8,138	95	890	2,405
2385	Waterproof outer garments.....	11	6	651	1,711	612	1,082	1,502	4,352	7,299	36	327	672
2386	Leather & sheep-lined clothing.	4	2	436	1,270	361	665	864	2,010	4,559	(D)	324	(D)
2387	Belts.....	25	13	1,316	3,397	1,103	1,857	2,009	5,236	9,232	56	772	2,779
239	Fabricated textiles, n.e.c....	343	98	7,310	19,226	6,402	12,161	14,431	33,054	( <sup>2</sup> )	623	6,744	24,889
2391	Curtains and draperies.....	41	13	1,066	2,824	945	1,823	2,111	4,803	14,151	68	492	1,660
2392	Housefurnishings, n.e.c.....	67	25	2,063	5,276	1,823	3,391	3,947	9,668	25,636	104	2,207	7,193
2393	Textile bags.....	12	6	405	1,174	322	606	778	1,916	7,798	28	420	2,105
2394	Canvas products.....	73	12	832	2,534	685	1,412	1,766	4,144	9,175	90	589	2,281
2395	Tucking, pleating and stitching	25	3	200	415	187	330	378	727	858	24	427	(D)
2396	Trimings and art goods.....	25	11	834	1,986	752	1,419	1,518	3,310	8,264	188	454	2,329
2397	Schiffli-machine embroideries..	13	7	329	737	302	572	613	1,171	1,626	33	(D)	(D)
2398	Embroideries, except schiffli..	21	4	339	704	326	557	655	1,067	1,288	5	507	1,168
2399	Textile products, n.e.c.....	66	17	1,239	3,573	1,055	2,047	2,661	6,244	12,363	79	1,442	6,412
24	Lumber and wood products...	1,558	163	14,425	39,224	12,562	24,283	31,298	60,140	( <sup>2</sup> )	3,520	( <sup>4</sup> )	( <sup>4</sup> )
2411	Logging camps and contractors	205	6	757	1,265	672	1,127	1,145	2,119	3,512	299	( <sup>4</sup> )	( <sup>4</sup> )
242	Lumber and basic products....	1,005	51	6,282	13,694	5,627	10,468	11,756	21,089	( <sup>2</sup> )	1,812	6,771	19,335
2421	Sawmills and planing mills.....	999	51	6,207	13,561	5,569	10,365	11,653	20,867	37,690	1,800	6,643	19,130
243	Millwork and related products	160	46	3,254	12,824	2,550	5,313	8,958	19,476	( <sup>2</sup> )	529	3,297	12,773
2431	Millwork plants.....	148	38	2,604	10,039	2,056	4,309	7,226	13,746	28,638	397	2,786	10,718
244	Wooden containers.....	67	25	1,764	4,966	1,574	3,159	3,993	7,330	( <sup>2</sup> )	540	2,810	8,774
2443	Cigar boxes.....	9	7	475	952	439	917	819	1,650	3,188	(D)	700	1,957
2444	Wooden boxes.....	36	15	872	2,642	762	1,521	1,991	3,612	7,716	395	1,197	4,098
2445	Cooperage.....	14	3	359	1,250	323	630	1,077	1,818	9,601	(D)	763	2,374
249	Miscellaneous wood products..	121	35	2,366	6,473	2,138	4,214	5,444	10,124	( <sup>2</sup> )	338	2,752	9,318
2499	Wood products, n.e.c.....	107	32	2,180	5,846	1,984	3,917	4,994	8,843	16,546	273	2,428	7,387
25	Furniture and fixtures.....	626	235	22,961	77,622	19,717	39,107	60,293	124,368	( <sup>2</sup> )	3,794	17,826	70,051
251	Household furniture.....	393	156	15,374	49,367	13,276	26,199	38,188	77,715	( <sup>2</sup> )	2,483	13,122	51,514
2511	Wood furniture, not upholstered	168	67	8,097	24,862	7,165	14,628	19,984	37,111	66,191	946	8,568	30,717
2512	Upholstered household furniture	109	33	2,742	8,818	2,379	4,515	7,006	14,872	29,770	463	2,154	10,128
2514	Metal household furniture.....	60	33	3,280	11,275	2,779	5,159	8,470	17,807	41,612	793	1,228	(D)
252	Office furniture.....	22	18	2,275	8,227	2,058	4,238	6,869	13,076	( <sup>2</sup> )	508	1,334	4,822
253	Public and professional fur- niture.....	29	11	930	3,701	779	1,549	2,899	5,891	( <sup>2</sup> )	(D)	578	2,312
2531	Public-building furniture.....	23	8	658	2,534	570	1,143	2,033	4,373	8,395	147	387	(D)
2541	Partitions and fixtures.....	96	29	2,343	9,326	1,930	3,703	7,192	15,213	27,100	217	1,384	5,945
256	Screens, shades, and blinds..	67	16	1,519	5,106	1,238	2,527	3,766	8,492	( <sup>2</sup> )	315	1,217	4,799
2561	Window and door screens.....	9	5	579	2,242	489	1,001	1,725	3,634	8,679	(D)	455	1,977
2563	Venetian blinds.....	49	8	844	2,536	690	1,404	1,875	4,333	10,902	234	703	2,595
259	Furniture and fixtures, n.e.c.....	19	5	518	1,893	434	888	1,376	3,979	( <sup>2</sup> )	(D)	191	659
2591	Restaurant furniture.....	14	3	407	1,425	338	702	1,035	2,371	4,183	71	174	(D)
2599	Furniture and fixtures, n.e.c..	5	2	110	468	95	185	340	1,607	3,308	(D)	(D)	(D)

See footnotes at end of table.



## MANUFACTURES—AREA STATISTICS

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry	1954								1947			
		Establish- ments, number		All employees		Production workers			Value added by manufacture	Value of shipments	Capital expendi- tures, new	All employees, number	Value added by manufacture
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
26	Pulp, paper and products...	417	274	38,045	156,707	30,949	64,956	114,015	303,918	( <sup>2</sup> )	27,886	35,270	205,713
261	Pulp, paper and board.....	60	55	13,109	60,892	10,822	23,925	46,677	117,790	( <sup>2</sup> )	16,827	12,772	86,535
2611	Pulp mills.....	10	8	2,224	9,515	1,904	4,060	7,641	15,291	40,066	6,647	2,267	9,915
2612	Paper and paper board mills....	46	43	10,459	49,648	8,548	19,095	37,567	99,181	261,949	10,025	10,505	76,620
2613	Building paper and board mills..	4	4	426	1,729	370	770	1,469	3,317	7,550	154		
2641	Paper coating and glazing....	23	7	1,141	4,527	910	1,753	3,260	24,955	38,662	581	885	5,282
2651	Envelopes.....	12	8	670	2,590	552	1,118	1,652	3,898	6,637	138	613	2,545
2661	Paper bags.....	23	13	1,419	5,758	1,155	2,242	4,131	10,801	29,202	334	1,821	9,634
267	Paperboard containers.....	200	140	13,387	49,057	11,113	22,485	35,533	85,481	( <sup>2</sup> )	4,280	11,518	62,013
2671	Paperboard boxes.....	183	129	12,254	44,663	10,101	20,474	31,837	76,481	179,205	3,927	10,532	56,323
2674	Fiber cans, tubes, drums, etc..	17	11	1,133	4,394	1,012	2,011	3,695	8,999	19,840	352	986	5,690
269	Pulp, paper and products, n.e.c.....	99	51	8,316	33,881	6,395	13,430	22,760	60,992	( <sup>2</sup> )	5,724	7,661	39,704
2691	Die-cut paper and board.....	20	2	135	504	109	188	275	881	1,723	(D)	351	(D)
2699	Paper and board products, nec..	67	42	7,537	30,972	5,746	12,181	20,666	56,912	168,483	5,625	6,080	30,119
27	Printing and publishing....	1,941	451	61,783	275,909	40,658	80,813	172,603	470,620	( <sup>2</sup> )	18,903	54,686	312,912
2711	Newspapers.....	396	124	20,414	92,360	10,823	22,742	49,388	149,809	220,672	6,558	18,077	100,752
2721	Periodicals.....	98	19	7,240	36,987	2,992	5,886	14,997	102,793	185,620	2,239	8,360	80,424
273	Books.....	84	25	3,775	15,084	2,619	5,246	9,384	28,137	( <sup>2</sup> )	869	2,730	16,066
2731	Books; publishing and printing..	39	10	1,673	6,733	813	1,565	2,507	15,724	26,412	131	2,134	13,068
2732	Book printing.....	45	15	2,101	8,350	1,806	3,680	6,877	12,412	17,266	738	596	2,998
2741	Miscellaneous publishing.....	38	7	616	1,824	181	384	541	3,194	4,721	172	272	1,203
2751	Commercial printing.....	857	129	17,843	75,211	14,558	28,065	59,000	108,585	188,054	5,961	14,135	62,407
2761	Lithographing.....	181	62	5,214	24,897	4,110	8,067	17,186	37,456	61,911	2,021	2,947	16,265
2771	Greeting cards.....	16	7	662	2,009	514	978	1,357	3,282	5,315	41	410	1,484
278	Bookbinding and related in- dustries.....	94	24	1,693	5,542	1,471	2,925	4,144	8,059	( <sup>2</sup> )	284	3,153	10,616
2781	Bookbinding.....	50	15	1,060	3,438	924	1,848	2,712	4,963	6,032	130	2,129	6,607
2782	Blankbooks and paper ruling....	30	5	335	1,098	291	563	751	1,536	2,216	141	577	2,043
279	Printing trade services.....	177	54	4,323	21,993	3,385	6,515	16,602	29,301	( <sup>2</sup> )	754	4,602	23,695
2791	Typesetting.....	64	13	1,213	5,465	975	1,816	4,115	7,820	9,114	272	1,331	6,529
2792	Engraving and plate printing...	35	6	734	2,872	586	1,161	2,145	4,117	6,358	90	1,148	3,882
2793	Photoengraving.....	60	24	1,526	8,968	1,151	2,225	6,885	11,208	13,253	229	1,577	9,571
2794	Electrotyping and stereotyping..	18	11	840	4,678	662	1,300	3,445	6,144	7,765	151	546	3,713
28	Chemicals and products.....	713	263	45,198	200,514	29,781	59,337	113,053	510,561	( <sup>2</sup> )	39,297	43,657	310,828
281	Inorganic chemicals.....	31	18	1,831	8,132	1,328	2,581	5,172	22,723	( <sup>2</sup> )	2,549	(D)	(D)
282	Organic chemicals.....	62	45	18,278	84,059	12,946	26,351	53,766	199,647	( <sup>2</sup> )	23,087	18,909	105,257
2822	Intermediate and organic colors	13	9	2,783	14,017	2,063	4,302	9,470	31,790	81,331	6,581	(NA)	(NA)
2823	Plastics materials.....	15	12	6,296	32,132	3,925	8,007	17,779	97,784	197,364	12,296	3,820	19,072
2829	Organic chemicals, n.e.c.....	14	10	2,137	9,612	1,600	3,360	6,641	18,930	49,451	2,207	(NA)	(NA)
283	Drugs and medicines.....	110	36	8,139	35,921	4,586	8,920	15,645	125,599	( <sup>2</sup> )	3,529	5,291	60,511
284	Soap and related products....	111	27	2,273	9,740	1,470	2,723	4,761	23,027	( <sup>2</sup> )	690	2,603	24,300
2842	Cleaning and polishing products	64	11	817	2,982	537	997	1,701	6,828	15,140	338	843	5,006
285	Paints and allied products....	106	52	6,941	31,056	4,394	8,610	16,199	65,322	( <sup>2</sup> )	4,355	7,046	48,981
2851	Paints and varnishes.....	88	40	4,795	22,553	2,810	5,476	10,520	48,273	118,602	3,580	4,095	30,136
2852	Inorganic color pigments.....	14	10	2,069	8,245	1,523	3,000	5,482	16,461	43,447	772	2,837	(D)
286	Gum and wood chemicals.....	8	5	274	950	229	476	708	1,953	( <sup>2</sup> )	210	787	2,163
287	Fertilizers.....	31	6	686	2,300	498	1,097	1,549	4,479	( <sup>2</sup> )	349	743	4,223
288	Vegetable and animal oils....	51	16	1,133	4,464	757	1,650	2,611	8,619	( <sup>2</sup> )	2,197	1,347	10,934
2886	Grease and tallow.....	45	11	852	3,385	543	1,224	1,853	6,877	18,026	1,975	924	(D)
289	Chemical products, n.e.c.....	203	58	5,640	23,889	3,570	6,927	12,639	59,189	( <sup>2</sup> )	2,328	4,597	33,902
2891	Printing ink.....	23	8	707	3,145	478	971	1,812	6,818	14,686	181	789	5,827
2893	Toilet preparations.....	26	2	305	790	172	336	433	3,435	5,291	19	406	2,205
2894	Glue and gelatin.....	21	9	699	2,858	421	802	1,274	5,374	11,154	330	415	(D)
2896	Compressed and liquefied gases.	36	18	1,152	4,895	723	1,498	2,978	16,472	21,635	877	1,157	10,170
2899	Chemical products, n.e.c.....	91	18	2,517	11,223	1,583	2,937	5,433	25,614	49,025	(D)	1,733	11,863
29	Petroleum and coal products	148	55	26,074	126,704	20,946	40,192	93,746	294,028	( <sup>2</sup> )	78,687	29,284	242,691
2911	Petroleum refining.....	18	17	15,008	77,412	11,943	23,500	57,749	154,623	920,378	57,944	15,478	138,520
293	Coke and by products.....	44	18	8,598	37,570	7,233	13,083	29,043	112,630	( <sup>2</sup> )	(D)	10,913	82,118
2931	Beehive coke ovens.....	31	5	383	919	348	314	789	1,729	6,091	(D)	2,444	18,502
2932	By product coke ovens.....	13	13	8,215	36,650	6,885	12,769	28,254	110,900	325,619	(D)	8,469	63,616
295	Paving and roofing materials..	53	8	1,214	4,931	962	1,995	3,642	12,152	( <sup>2</sup> )	1,043	1,461	10,702
2951	Paving mixtures and blocks.....	39	1	346	1,401	272	567	955	3,677	10,114	693	435	2,379
2952	Roofing felts and coatings.....	14	7	868	3,530	690	1,427	2,687	8,475	25,773	349	1,026	8,323
299	Petroleum and coal products, n.e.c.....	33	12	1,253	6,790	806	1,613	3,311	14,623	( <sup>2</sup> )	(D)	1,432	11,351
2992	Lubricants, n.e.c.....	26	10	1,053	5,818	635	1,258	2,512	13,139	25,685	728	(D)	(D)
2999	Petroleum & coal products, nec.	7	2	200	972	171	355	799	1,483	4,246	65	246	(D)

See footnotes at end of table.



Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
30	Rubber products.....	89	42	13,046	55,591	10,556	20,681	41,781	121,873	(2)	11,818	15,149	81,530
3011	Tires and inner tubes.....	6	6	5,412	25,614	4,596	9,092	21,122	72,117	151,245	9,464	8,290	55,236
31	Leather and leather goods..	300	201	30,679	82,668	27,991	52,515	68,163	120,877	(2)	2,197	31,231	125,543
3111	Leather tanning and finishing	47	37	6,117	21,694	5,489	10,761	17,849	28,793	85,401	577	7,870	47,436
3131	Footwear cut stock.....	17	14	991	2,676	897	1,718	2,237	3,600	14,427	235	1,773	5,089
314	Footwear, except rubber.....	132	114	20,349	50,374	18,698	34,988	41,874	75,664	(2)	1,216	16,770	54,320
3141	Footwear, except rubber.....	124	108	19,807	49,198	18,192	34,043	40,898	73,575	144,375	1,209	16,007	51,922
3142	House slippers.....	8	6	541	1,176	506	945	975	2,089	4,767	6	763	2,398
3161	Luggage.....	43	9	865	2,527	765	1,487	1,932	4,015	8,624	49	1,272	6,143
317	Purses and small leather goods.....	29	16	1,711	3,497	1,612	2,630	2,992	5,660	(2)	65	2,374	7,565
3171	Handbags and purses.....	19	12	1,326	2,678	1,243	1,937	2,241	4,158	8,383	23	1,910	6,280
3172	Small leather goods.....	10	4	385	819	369	692	751	1,501	2,736	41	464	1,285
319	Miscellaneous leather products.....	19	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3199	Leather goods, n.e.c.....	16	5	216	538	177	312	356	791	1,689	9	379	1,080
32	Stone, clay, and glass products.....	955	381	64,841	260,041	55,580	109,929	209,083	495,123	(2)	32,391	71,866	333,259
3211	Flat glass.....	9	9	7,877	41,073	6,774	13,974	35,074	85,058	116,163	3,617	9,872	56,144
322	Pressed and blown glassware..	47	35	15,214	55,737	13,727	26,128	47,922	94,680	(2)	4,229	18,011	74,642
3221	Glass containers.....	15	15	8,172	29,571	7,526	14,207	26,316	52,791	92,859	2,368	7,601	(D)
3229	Pressed and blown glass, n.e.c.	32	20	7,041	26,166	6,201	11,921	21,606	41,889	59,885	1,860	10,410	(D)
3231	Products of purchased glass..	85	27	2,925	10,966	2,381	4,614	7,966	20,028	34,560	430	1,975	7,840
3241	Cement, hydraulic.....	24	24	6,641	28,322	5,770	11,959	23,286	80,729	124,179	9,488	6,610	41,720
325	Structural clay products.....	122	101	9,097	35,250	8,122	15,922	29,489	57,566	(2)	4,434	10,029	40,105
3251	Brick and hollow tile.....	52	43	2,917	11,825	2,634	5,602	10,150	19,651	25,942	2,322	2,801	10,283
3254	Sewer pipe.....	6	6	989	3,358	929	1,753	3,093	4,563	6,212	159	997	4,200
3255	Clay refractories.....	52	44	3,814	14,446	3,374	6,049	12,048	22,637	34,943	834	5,113	20,274
326	Pottery and related products.	42	20	5,803	20,680	5,005	9,872	16,292	29,640	(2)	853	7,181	26,264
3265	China decorating for the trade.	6	1	187	478	158	330	377	790	1,743	(D)	51	(D)
3269	Pottery products, n.e.c.....	22	5	437	1,408	394	856	1,224	2,553	3,164	167	335	1,668
327	Concrete and plaster products	384	69	5,926	21,223	4,717	9,996	15,635	40,178	(2)	4,665	4,998	23,682
3271	Concrete products.....	354	56	4,062	13,847	3,154	6,595	9,846	25,209	48,395	3,437	3,140	13,002
3274	Lime.....	23	10	1,429	5,536	1,208	2,615	4,357	8,773	17,001	1,131	1,118	6,366
3281	Cut-stone and stone products.	78	19	1,448	5,888	1,229	2,432	3,916	9,962	12,925	143	535	2,270
329	Nonmetallic mineral products, n.e.c.....	164	77	9,907	40,900	7,852	15,028	29,499	77,281	(2)	4,528	12,655	60,592
3291	Abrasive products.....	30	15	1,547	7,044	1,068	1,939	4,091	12,010	19,835	473	1,495	7,237
3292	Asbestos products.....	11	8	2,303	9,140	1,814	3,576	7,066	17,865	30,345	(D)	2,670	13,598
3293	Gaskets & asbestos insulations.	17	7	1,472	6,640	1,081	2,244	4,202	11,199	18,470	914	2,667	10,215
3295	Minerals: ground or treated...	48	20	922	4,037	774	1,698	3,176	8,633	14,997	1,396	292	(D)
3297	Nonclay refractories.....	27	21	3,149	12,314	2,706	4,788	9,737	23,461	37,148	1,020	5,282	26,652
3298	Statuary and art goods.....	25	4	223	645	198	391	542	1,024	1,447	13	176	543
3299	Nonmetallic mineral prod., nec.	6	2	287	1,078	208	390	681	3,086	5,371	(D)	73	(D)
33	Primary metal industries...	608	403	238,761	1,069,326	198,362	366,217	823,850	1,767,624	(2)	152,679	262,269	1,219,042
331	Blast furnaces and steel mills.....	90	89	173,129	780,768	144,449	262,409	608,001	1,286,469	(2)	129,935	188,573	873,765
332	Iron and steel foundries.....	193	149	25,933	108,251	22,027	40,441	82,952	155,716	(2)	6,408	34,753	141,478
3321	Gray-iron foundries.....	144	103	10,580	42,444	9,310	17,494	34,682	59,398	108,034	2,788	14,490	60,543
3322	Malleable-iron foundries.....	8	9	1,475	5,786	1,297	2,468	4,748	8,201	11,642	115	2,463	8,140
3323	Steel foundries.....	41	37	13,877	60,021	11,420	20,479	43,522	88,117	135,401	3,505	17,800	72,795
333	Primary nonferrous metals....	3	3	2,500	11,728	1,693	3,030	6,823	26,520	62,433	601	(D)	(D)
3333	Primary zinc.....	3	3	2,500	11,728	1,693	3,030	6,823	26,520	62,433	601	3,630	(D)
3341	Secondary nonferrous metals..	28	17	1,432	6,237	1,127	2,249	3,944	13,377	61,425	458	2,666	12,729
335	Nonferrous rolling and drawing.....	28	19	7,714	33,856	5,626	11,346	22,636	72,703	(2)	5,795	5,646	28,242
3351	Copper rolling and drawing....	12	7	2,638	11,837	2,091	4,314	8,458	38,167	81,846	2,265	3,404	(D)
3361	Nonferrous foundries.....	144	43	7,084	32,450	5,896	11,902	24,647	44,393	77,932	2,075	6,053	29,246
339	Primary metal industries, n.e.c.....	122	83	20,968	96,034	17,540	34,838	74,844	168,445	(2)	7,405	(D)	(D)
3391	Iron and steel forgings.....	27	23	5,261	24,999	4,335	8,496	18,743	42,665	77,460	966	5,297	23,979
3392	Wire drawing.....	18	13	4,357	18,341	3,604	7,062	14,138	30,673	80,164	1,424	6,038	30,732
3393	Welded and heavy-riveted pipe.	20	19	7,437	36,185	6,589	13,613	30,250	63,499	179,277	3,237	(D)	(D)
3399	Primary metal industries, nec..	57	28	3,912	16,509	3,010	5,665	11,711	31,605	84,360	1,776	4,591	26,039
34	Fabricated metal products...	1,555	643	105,354	448,990	84,763	167,030	327,591	758,120	(2)	39,855	115,051	533,408
3411	Tin cans and other tinware...	14	11	4,513	19,552	3,903	7,970	16,162	32,643	87,674	2,437	3,747	14,026
342	Cutlery, tools and hardware.	129	71	8,862	35,008	7,153	13,999	24,926	57,079	(2)	1,509	11,933	50,140
3421	Cutlery.....	7	3	393	1,503	344	754	1,197	2,324	2,931	53	662	2,563
3422	Edge tools.....	16	5	381	1,790	324	636	1,257	2,688	3,816	(D)	542	(D)
3423	Hand tools.....	35	22	2,281	8,954	1,813	3,417	6,362	15,963	22,857	261	3,161	14,562
3424	Files.....	4	3	572	2,067	524	898	1,766	3,506	5,951	(D)	953	4,170
3425	Hand saws and saw blades.....	10	8	1,862	7,754	1,347	2,609	5,028	11,418	19,998	408	2,209	(D)
3429	Hardware, n.e.c.....	57	30	3,372	12,939	2,799	5,682	9,314	21,179	35,167	587	4,406	18,735

See footnotes at end of table.

## MANUFACTURES—AREA STATISTICS

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry	1954										1947	
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
343	Fabricated metal products--Continued												
	Heating and plumbing equipment.....	111	55	9,564	37,813	7,612	14,316	27,652	69,849	(2)	2,885	14,569	65,679
3431	Plumbing fixtures and fittings.....	23	9	1,868	7,517	1,605	3,000	6,178	14,167	23,106	397	3,492	12,253
3439	Heating and cooking equip., nec.....	88	46	7,695	30,296	6,006	11,316	21,473	55,681	107,254	2,488	11,077	53,426
344	Structural metal products....	597	247	40,447	183,404	32,192	64,242	131,342	328,960	(2)	20,454	33,633	163,143
3441	Structural and ornamental work.....	269	93	19,777	89,673	15,662	30,906	64,037	168,609	317,319	5,178	13,768	71,641
3442	Metal doors, sash, and trim....	85	40	4,215	15,689	3,466	6,856	11,790	29,802	60,138	9,563	2,462	10,991
3443	Boiler shop products.....	85	56	11,297	52,574	9,108	18,229	39,142	87,040	177,791	3,677	12,940	59,725
3444	Sheet-metal work.....	158	58	5,157	25,467	3,956	8,249	16,372	43,508	82,373	2,035	4,463	20,789
346	Metal stamping and coating....	263	85	17,394	79,110	13,933	27,597	58,570	110,457	(2)	3,949	27,034	120,161
3461	Vitreous-enameled products.....	8	8	1,897	6,013	1,615	2,887	4,737	8,311	14,912	318	2,482	9,837
3463	Metal stampings.....	111	47	13,237	64,526	10,394	20,877	47,439	87,409	170,006	2,055	22,454	101,014
3465	Enameling and lacquering.....	18	3	254	901	218	409	685	1,336	2,489	137	179	(D)
3466	Galvanizing.....	9	5	463	1,942	394	788	1,383	2,880	4,164	84	556	3,143
3468	Plating and polishing.....	108	21	1,482	5,582	1,258	2,521	4,190	10,222	15,520	1,337	1,344	5,413
3471	Lighting fixtures.....	108	45	3,905	13,336	3,310	6,656	9,615	25,303	57,462	440	3,333	17,133
348	Fabricated wire products.....	109	43	6,915	25,887	5,782	11,294	20,039	47,985	(2)	1,744	6,232	31,185
349	Metal products, n.e.c.....	224	86	13,751	54,878	10,875	20,952	39,282	85,841	(2)	6,433	14,570	71,939
3494	Bolts, nuts, washers and rivets.....	36	26	6,995	30,364	5,257	9,975	20,263	43,756	74,014	4,539	7,629	37,226
3495	Screw machine products.....	84	24	1,608	5,744	1,367	2,737	4,389	9,030	15,461	418	1,213	5,168
3499	Fabricated metal products, nec.....	75	17	1,486	4,664	1,254	2,381	3,414	8,474	16,525	440	693	2,968
35	Machinery, except electrical.....	1,654	587	129,260	581,408	96,440	191,417	393,390	1,011,674	(2)	45,094	136,378	667,419
351	Engines and turbines.....	14	10	15,434	78,548	11,326	22,889	53,804	124,264	(2)	(D)	11,204	51,412
352	Tractors and farm machinery..	46	18	3,912	17,638	2,652	5,783	11,299	37,448	(2)	1,637	5,461	31,252
3521	Tractors.....	6	2	1,028	3,820	618	1,130	2,072	2,996	7,265	617	1,004	7,223
3522	Farm machinery (exc. tractors)..	40	16	2,883	13,818	2,034	4,653	9,226	34,452	72,159	1,019	4,457	24,029
353	Construction and mining machinery.....	60	33	6,799	28,030	5,109	9,693	19,569	50,179	(2)	2,733	11,283	59,016
3531	Construction and mining mach.....	48	26	4,849	20,231	3,565	6,998	14,026	40,414	73,220	2,068	(D)	(D)
3532	Oil-field machinery and tools..	12	7	1,950	7,799	1,543	2,694	5,543	9,765	20,161	665	(D)	(D)
354	Metalworking machinery.....	332	83	18,121	83,510	14,680	30,037	63,074	159,163	(2)	5,679	15,569	80,488
3541	Machine tools.....	26	9	1,680	6,659	1,301	2,739	5,131	17,001	27,096	918	2,069	8,266
3542	Metalworking machinery.....	39	20	8,858	42,683	7,482	15,034	33,403	86,673	135,695	1,203	8,340	45,111
3544	Special dies and tools.....	225	38	3,893	19,201	3,174	6,891	14,641	26,742	34,254	2,214		
3545	Metalworking mach. attachments.	42	16	3,688	14,966	2,721	5,371	9,896	28,745	42,908	1,344	5,160	27,111
355	Special-industry machinery, n.e.c.....	230	112	18,296	80,814	13,822	27,602	54,781	121,709	(2)	4,969	20,360	107,456
3552	Textile machinery.....	62	35	8,121	35,739	6,304	12,466	24,812	52,010	74,220	2,362	10,221	54,456
3554	Paper-industries machinery.....	15	7	918	4,341	656	1,325	2,789	6,721	10,272	224	1,325	6,286
3555	Printing-trades machinery.....	23	13	1,642	7,617	1,315	2,710	5,610	11,815	17,436	542	2,099	10,755
3559	Special-industry mach., n.e.c..	73	32	5,142	23,269	3,731	7,434	15,199	34,913	59,765	1,201	3,595	19,124
356	General industrial machinery.	207	114	23,276	104,671	15,465	30,761	60,401	175,878	(2)	7,266	23,902	125,252
3561	Pumps and compressors.....	41	21	4,394	18,699	3,016	5,884	11,661	30,872	52,151	1,773	4,944	22,570
3563	Conveyors.....	30	17	2,969	14,029	1,951	3,867	8,100	26,436	45,865	1,237	1,864	12,889
3565	Industrial trucks and tractors.	17	8	3,110	13,856	1,968	3,780	7,679	23,343	40,576	(D)	2,393	(D)
3566	Power-transmission equipment...	32	25	6,254	28,259	4,232	8,526	16,094	42,927	72,308	1,830	7,579	37,778
3567	Industrial furnaces and ovens..	25	12	2,264	10,864	1,515	3,000	6,142	18,924	37,475	287	700	4,116
3569	General industrial mach., nec..	35	19	3,264	14,625	2,058	4,282	8,145	26,157	45,683	729	4,226	23,918
357	Office and store machines....	21	9	1,113	4,961	969	2,253	3,947	7,017	(2)	163	393	1,529
3579	Office and store machines, nec.	10	4	224	1,179	146	328	536	1,942	3,875	(D)	230	(D)
358	Service and household machines.....	76	40	15,450	68,076	11,469	22,540	44,509	132,091	(2)	4,075	21,394	86,101
3583	Sewing machines.....	5	2	106	318	92	176	273	247	494	8	90	(D)
3585	Refrigeration machinery.....	48	24	13,445	59,372	10,059	19,808	39,402	118,175	(2)	3,512	18,192	72,016
3589	Service & household mach., nec.	14	8	950	4,542	614	1,191	2,361	7,238	14,724	308	1,678	6,736
359	Miscellaneous machinery parts	668	168	26,856	115,158	20,945	39,856	82,005	203,921	(2)	(D)	26,812	124,913
3591	Valves and fittings, exc. plbg.	63	36	10,919	44,300	8,412	15,925	31,554	75,950	124,977	3,608	12,869	59,135
3592	Fabricated pipe and fittings...	42	19	3,087	17,137	2,408	3,897	12,252	43,176	64,980	1,341	(D)	(D)
3593	Ball and roller bearings.....	15	12	5,124	22,394	3,900	7,464	15,440	36,026	54,426	(D)	5,475	26,419
3594	Industrial patterns and molds..	128	16	1,292	5,515	1,130	2,234	4,583	8,429	11,189	376	(D)	(D)
3599	Machine shops.....	420	85	6,432	25,811	5,094	10,335	18,174	40,339	57,969	(D)	5,887	25,938
36	Electrical machinery.....	362	218	103,985	435,650	74,920	145,174	285,392	953,251	(2)	35,885	92,641	509,031
361	Electrical industrial apparatus.....	150	97	48,733	226,095	34,783	67,563	147,945	556,930	(2)	17,428	56,738	337,585
3611	Wiring devices and supplies....	41	26	6,092	23,796	5,005	9,533	18,451	58,423	104,638	2,787	4,343	27,572
3612	Carbon and graphite products...	10	7	2,063	7,668	1,597	3,198	5,080	12,561	17,035	780	2,289	(D)
3613	Elec. measuring instruments....	24	13	1,289	4,948	972	1,820	2,941	6,487	10,163	221	900	3,065
3614	Motors and generators.....	24	17	8,302	40,548	6,278	12,229	28,189	106,624	146,377	2,554	22,085	(D)
3615	Transformers.....	9	8	12,195	57,418	8,651	16,608	37,746	153,071	234,218	3,490	10,224	66,443
3616	Electrical control apparatus...	27	18	17,854	87,306	11,754	23,129	53,440	213,191	327,224	6,098	15,922	103,957
3617	Electrical welding apparatus...	8	7	815	3,875	434	861	1,774	5,612	16,179	1,477	294	1,954
3619	Elec. industrial apparatus nec.	7	1	121	534	90	183	321	958	1,326	19	681	(D)

See footnotes at end of table.



Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954										1947	
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
3621	Electrical machinery—Con.	15	8	3,592	16,452	2,597	5,153	11,192	35,764	55,167	3,479	3,778	20,047
3631	Electrical appliances.....	7	3	615	2,070	495	1,002	1,666	4,089	10,606	(D)	1,023	4,654
3641	Insulated wire and cable.....	11	8	1,654	5,693	1,310	2,639	3,994	11,039	17,731	(D)	249	855
3651	Engine electrical equipment..	6	6	1,683	5,813	1,491	2,867	4,812	16,731	25,484	1,198	565	(D)
366	Electric lamps (bulbs).....	138	83	44,206	164,154	31,562	61,078	105,236	305,710	( <sup>2</sup> )	12,048	25,456	121,109
3661	Communication equipment.....	96	58	24,438	87,845	17,259	33,637	56,290	163,411	( <sup>2</sup> )	3,535	13,824	81,867
3662	Radios and related products....	19	18	15,225	56,898	11,665	22,337	38,342	114,829	162,566	8,052	7,256	(D)
369	Electronic tubes.....	35	13	3,501	15,371	2,679	4,869	10,545	22,985	( <sup>2</sup> )	1,223	(D)	(D)
3691	Electrical products, n.e.c....	18	9	2,956	13,779	2,185	3,930	9,200	20,009	45,644	995	4,425	19,778
3699	Storage batteries.....	12	3	130	390	109	203	248	553	1,524	(D)	(D)	(D)
37	Electrical products, n.e.c....	190	99	68,330	333,596	51,920	105,912	237,495	517,975	( <sup>2</sup> )	28,231	64,614	314,353
371	Transportation equipment...	89	36	16,032	82,008	13,428	27,997	66,040	165,551	( <sup>2</sup> )	12,952	22,793	125,956
3713	Motor vehicles and equipment.	42	12	1,338	5,209	1,096	2,099	3,880	7,331	13,583	221	1,395	6,498
3717	Truck and bus bodies.....	35	18	13,866	73,252	11,691	24,503	59,511	150,929	( <sup>2</sup> )	12,537	20,544	114,944
372	Motor vehicles and parts.....	49	34	27,269	132,476	19,285	41,392	86,498	206,242	( <sup>2</sup> )	2,055	(D)	(D)
3722	Aircraft and parts.....	19	15	12,117	55,903	8,734	17,744	36,812	95,901	145,660	1,328	2,024	(D)
3729	Aircraft engines.....	25	14	9,801	50,853	7,025	16,373	35,303	68,410	91,109	505	(D)	(D)
373	Aircraft equipment, n.e.c.....	23	12	4,520	23,178	3,737	7,538	17,947	29,560	( <sup>2</sup> )	739	6,506	23,439
3731	Ships and boats.....	11	8	4,256	22,111	3,515	7,084	17,119	28,221	45,342	646	6,492	23,422
3732	Ship building and repairing....	12	4	263	1,067	222	454	827	1,339	2,714	92	14	17
374	Boat building and repairing....	19	14	20,170	94,664	15,190	28,440	66,089	114,132	( <sup>2</sup> )	12,342	30,967	137,171
38	Railroad equipment.....	207	75	25,398	107,318	16,781	33,538	65,155	184,523	( <sup>2</sup> )	6,573	20,608	94,089
3811	Instruments and related products.....	26	10	2,481	10,352	1,840	3,974	7,547	21,082	35,349	319	803	2,430
3821	Scientific instruments.....	47	26	13,397	60,749	8,659	17,090	36,255	96,699	146,972	2,882	9,456	46,359
3831	Mech. measuring instruments..	11	3	242	877	211	433	673	1,079	1,670	38	232	866
384	Optical instruments & lenses..	85	25	5,005	19,790	3,115	6,554	11,051	38,592	( <sup>2</sup> )	2,306	5,734	28,205
3841	Medical equipment and supplies.....	8	2	204	888	139	270	510	1,099	1,620	(D)	(D)	(D)
3861	Surgical & medical instruments.	19	4	386	1,482	270	569	934	2,440	6,074	146	144	575
39	Photographic equipment.....	864	282	46,018	169,322	37,408	74,198	123,860	287,729	( <sup>2</sup> )	19,492	31,539	141,238
391	Miscellaneous manufactures <sup>5</sup>	64	8	580	2,043	469	898	1,478	3,343	( <sup>2</sup> )	49	910	3,579
3911	Jewelry and silverware.....	45	5	402	1,378	318	613	954	2,297	4,196	22	580	2,312
3914	Jewelry (precious metal).....	6	3	114	459	95	180	348	683	1,141	18	233	928
393	Silverware and plated ware....	13	9	794	3,308	703	1,480	2,647	4,676	( <sup>2</sup> )	122	912	4,638
3932	Musical instruments and parts	4	2	153	492	136	297	371	797	1,440	(D)	(D)	(D)
394	Organs.....	130	47	7,339	21,927	6,573	12,485	17,829	39,842	( <sup>2</sup> )	1,267	5,989	21,160
3941	Toys and sporting goods.....	63	22	5,092	15,201	4,595	8,703	12,602	28,042	52,569	936	3,660	13,302
3942	Games and toys, n.e.c.....	14	5	488	1,207	456	863	1,086	1,676	3,555	49	349	878
395	Dolls.....	47	14	1,903	7,007	1,413	2,835	4,408	12,556	( <sup>2</sup> )	412	1,638	5,653
3952	Office supplies.....	6	3	675	2,245	538	1,109	1,550	5,592	8,903	243	554	(D)
3953	Lead pencils and crayons.....	29	7	890	3,691	621	1,242	2,215	4,958	6,487	111	768	3,103
3955	Hand stamps and stencils.....	4	2	170	652	121	233	371	1,021	2,076	44	(D)	(D)
396	Carbon paper and inked ribbons.	43	15	3,795	13,248	2,736	5,146	8,228	15,290	( <sup>2</sup> )	741	5,958	29,000
3962	Costume jewelry and notions..	17	9	611	1,345	558	1,055	1,081	2,320	4,339	(D)	436	1,503
3964	Artificial flowers.....	6	3	3,015	11,479	2,027	3,803	6,804	11,940	21,116	(D)	4,697	(D)
3971	Needles, pins, and fasteners...	138	47	8,384	33,214	6,776	13,708	24,277	50,954	95,965	3,718	5,927	30,502
398	Plastics products, n.e.c....	429	142	23,219	88,572	18,734	37,642	64,990	161,065	( <sup>2</sup> )	13,180	10,205	46,706
399	Miscellaneous manufactures <sup>5</sup> ..	49	11	803	2,053	650	1,175	1,355	3,147	7,215	(D)	680	3,046
3981	Brooms and brushes.....	6	3	189	500	167	385	394	875	1,480	11	(D)	(D)
3986	Jewelry and instrument cases...	46	15	907	2,168	840	1,562	1,871	3,437	6,166	33	902	3,077
3987	Lamp shades.....	38	19	2,239	8,374	1,888	3,717	6,421	13,290	21,475	518	2,223	12,058
3988	Morticians' goods.....	155	24	1,885	7,460	1,476	2,892	5,088	11,962	19,128	394	1,661	7,544
3993	Signs and advertising display..	6	2	104	367	65	108	211	625	975	16	68	(D)
3994	Hairwork.....	13	8	693	1,980	605	1,064	1,352	2,856	5,054	64	906	3,181
3995	Umbrellas, parasols and canes..	43	16	2,165	7,335	1,825	3,618	5,270	12,263	26,554	1,075	1,207	(D)
3999	Miscellaneous products, n.e.c....	44	35	12,550	52,231	9,781	20,103	38,189	99,782	( <sup>2</sup> )	9,620	(D)	(D)
1900	Ordinance and accessories.....												

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industries (4-digit) and industry groups (3-digit) are not shown. Industries and industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "all industries" line.

Footnotes continued on next page.



## MANUFACTURES—AREA STATISTICS

Footnotes for Table 4--Continued.

<sup>2</sup>The total value of shipments figures for industry groups and a few individual industries have not been published due to the extensive and unmeasurable duplication arising from shipments from one establishment to another in the same industry classification. (See Introduction.)

<sup>3</sup>The 1954 and 1947 "all industries" totals are not strictly comparable because of differences in scope between the two years in major groups 20 and 24 (see footnote 4).

<sup>4</sup>Comparable data for major groups 20 and 24 are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude establishments in S.I.C. Industry 2411, Logging Camps and Contractors, which are included in the scope of the 1954 Census; the 1947 Census also excludes plants processing and distributing fluid milk which in 1954 are classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
20	Food and kindred products except subgroup 202, Dairy products.....	90,000	653,000	98,000	555,000
24	Lumber and wood products except Industry 2411, Logging camps and contractors.....	13,668	58,021	15,630	50,200

<sup>5</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, Ordnance and Accessories. (Establishments which are Government-owned and operated are not included.)

Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947

(For explanation of column captions see Introduction)

Code	Industry group	Establishments, number	1954							1947	
			All employees		Production workers			Value added by manufacture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
ALLENTOWN-BETHLEHEM-EASTON STANDARD METROPOLITAN AREA (Consists of Lehigh and Northampton Counties, Pennsylvania; Warren County, New Jersey)											
	All industries, total <sup>1</sup> ...	1,007	90,265	323,179	74,271	140,359	239,744	593,489	43,417	<sup>2</sup> 88,614	<sup>2</sup> 360,669
20	Food and kindred products...	143	3,703	13,106	2,443	4,999	7,680	22,189	922	( <sup>3</sup> )	( <sup>3</sup> )
201	Meat products.....	15	676	2,644	474	970	1,689	2,855	117	789	2,485
202	Dairy products.....	35	527	1,830	307	622	952	3,912	289	( <sup>3</sup> )	( <sup>3</sup> )
204	Grain mill products.....	13	301	1,209	204	442	664	1,659	117	356	1,824
205	Bakery products.....	34	1,030	3,576	667	1,373	1,993	5,765	197	973	4,623
208	Beverages.....	20	570	2,161	284	628	1,032	5,545	149	798	3,666
21	Tobacco manufactures.....	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
22	Textile mill products.....	119	9,131	29,221	8,233	15,701	24,057	45,148	1,724	13,295	51,712
222	Yarn and thread mills.....	5	186	550	167	314	444	644	42	987	2,211
223	Broad-woven fabrics.....	36	2,567	8,106	2,413	4,551	7,000	10,975	243	3,713	14,619
224	Narrow fabric mills.....	7	401	1,616	331	649	1,075	3,014	291	1,877	4,920
225	Knitting mills.....	51	3,850	10,838	3,427	6,234	8,746	18,169	868	5,228	23,511
226	Finishing textiles, exc. wool..	12	1,337	5,562	1,220	2,694	4,834	7,722	176	718	2,475
23	Apparel & related products..	243	18,277	42,892	17,047	29,666	36,776	58,838	1,069	15,942	41,570
231	Men's and boys' suits and coats	7	1,687	5,250	1,539	2,654	4,303	7,094	58	(D)	(D)
232	Men's and boys' furnishings....	43	4,215	9,961	3,967	6,654	8,586	12,155	180	5,171	13,245
233	Women's and misses' outerwear..	111	6,379	13,345	6,104	11,184	12,391	18,474	327	3,578	8,160
234	Women's undergarments.....	37	3,323	7,865	2,966	4,752	6,160	11,812	369	4,535	11,992
236	Children's outerwear.....	19	969	2,384	907	1,557	1,956	2,891	57	349	819
239	Fabricated textiles, n.e.c.....	18	1,156	2,888	1,052	2,032	2,287	4,629	58	1,143	3,334
24	Lumber and wood products....	25	271	877	238	425	707	1,781	37	564	1,884
243	Millwork and related products..	8	176	656	151	276	520	1,460	23	369	1,330
25	Furniture and fixtures.....	28	651	2,176	565	1,151	1,676	3,027	44	785	2,069
251	Household furniture.....	22	588	1,943	517	1,060	1,542	2,629	28	(D)	(D)
26	Pulp, paper and products....	21	2,967	12,243	2,264	5,118	8,132	19,454	4,149	1,949	(D)
267	Paperboard containers.....	12	755	2,333	691	1,458	1,826	3,658	266	(D)	(D)
27	Printing and publishing.....	81	2,452	9,707	1,564	4,645	6,042	15,723	382	1,534	6,748
271	Newspapers.....	13	861	3,704	365	2,139	1,532	6,485	13	889	4,172
272	Periodicals.....	9	297	827	204	431	608	1,421	8	(D)	(D)
275	Commercial printing.....	42	1,141	4,612	883	1,867	3,497	6,736	331	494	1,751
28	Chemicals and products.....	28	2,243	9,063	1,508	3,091	5,574	19,690	1,120	2,288	9,955
282	Organic chemicals.....	5	729	2,818	585	1,195	2,137	7,332	427	408	2,384
283	Drugs and medicines.....	5	146	658	94	206	320	1,915	18	(D)	(D)
285	Paints and allied products.....	5	520	2,057	362	741	1,311	3,871	185	(D)	(D)
289	Chemical products, n.e.c.....	7	136	475	87	150	272	1,992	72	(D)	(D)
29	Petroleum and coal products..	6	527	(D)	450	(D)	(D)	(D)	(D)	(D)	(D)
30	Rubber products.....	3	13	(D)	9	(D)	(D)	(D)	(D)	(D)	(D)
31	Leather and leather goods...	14	1,188	3,249	1,112	2,100	2,856	4,679	51	1,174	3,266
314	Footwear, except rubber.....	5	799	1,957	755	1,476	1,763	2,748	44	(D)	(D)
32	Stone, clay, & glass prod...	88	6,124	24,180	5,375	10,859	19,884	64,330	4,563	4,953	31,097
324	Cement, hydraulic.....	16	4,543	18,863	4,009	8,154	15,757	55,477	4,105	4,154	27,993
327	Concrete and plaster products..	31	282	703	231	411	491	1,307	148	(D)	(D)
328	Cut-stone and stone products...	22	745	2,410	662	1,337	1,950	3,423	52	219	884
329	Nonmet. mineral prod., n.e.c...	13	343	1,409	277	547	957	3,242	240	115	918
33	Primary metal industries....	19	20,157	(D)	16,006	(D)	(D)	(D)	(D)	19,829	(D)
34	Fabricated metal products...	67	5,791	23,388	4,711	9,073	16,792	43,730	1,020	4,976	23,810
342	Cutlery, tools, and hardware...	8	829	2,944	687	1,322	2,175	4,739	81	(D)	(D)
344	Structural metal products.....	34	3,481	15,024	2,775	5,168	10,393	28,257	429	2,659	15,096
346	Metal stamping and coating....	14	935	3,658	788	1,683	2,869	7,188	373	1,030	3,616
35	Machinery, exc. electrical..	64	6,127	26,417	4,138	8,401	16,207	50,637	1,464	6,116	31,839
355	Special-industry mach., n.e.c...	13	763	3,262	624	1,237	2,355	4,461	239	1,332	5,942
356	General industrial machinery...	13	3,245	14,254	1,826	3,678	7,053	28,563	622	2,563	14,408
359	Miscellaneous machinery parts..	23	651	2,551	496	1,005	1,911	3,560	267	443	1,373
36	Electrical machinery.....	25	6,766	25,678	5,309	10,137	17,727	57,070	2,779	3,276	13,353
361	Electrical industrial apparatus	11	1,517	5,400	1,222	2,351	3,755	7,408	90	(D)	(D)
366	Communication equipment.....	9	4,285	16,449	3,273	6,172	10,958	39,129	1,382	1,745	6,903
37	Transportation equipment....	3	1,763	(D)	1,379	(D)	(D)	(D)	(D)	5,198	(D)
38	Instruments & related prod..	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	96	237
39	Miscellaneous manufactures <sup>4</sup> ..	20	1,241	3,987	1,094	2,172	3,210	9,519	512	1,374	(D)
394	Toys and sporting goods.....	4	404	1,089	376	663	991	2,337	119	(D)	(D)
398	Miscellaneous manufactures <sup>4</sup> ....	7	160	649	138	285	484	2,053	10	(D)	(D)

See footnotes at end of table.

Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947—Continued

Code	Industry group	Establish- ments, number	1954							1947	
			All employees		Production workers			Value added by manufacture	Capital expendi- tures, new	All employees, number	Value added by manufacture
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
ERIE STANDARD METROPOLITAN AREA (Consists of Erie County, Pennsylvania)											
	All industries, total <sup>1</sup> ...	422	40,488	171,969	31,786	62,089	122,133	286,397	13,882	<sup>2</sup> 46,285	<sup>2</sup> 224,906
20	Food and kindred products...	71	2,311	7,935	1,446	2,873	4,118	18,749	1,135	( <sup>3</sup> )	( <sup>3</sup> )
201	Meat products.....	7	235	808	176	342	571	1,111	43	208	879
202	Dairy products.....	28	725	2,620	295	619	835	4,356	303	( <sup>3</sup> )	( <sup>3</sup> )
203	Canned and frozen foods.....	6	595	1,691	507	970	1,241	6,131	452	534	3,227
205	Bakery products.....	10	353	1,290	215	409	635	2,179	70	(D)	(D)
208	Beverages.....	10	328	1,352	191	408	688	4,512	242	336	2,281
21	Tobacco manufactures.....	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...	...
23	Apparel & related products..	8	272	421	221	392	293	562	17	232	528
239	Fabricated textiles, n.e.c.....	4	26	85	21	51	64	146	4	(D)	(D)
24	Lumber and wood products....	28	365	952	328	599	793	1,600	176	487	1,651
249	Miscellaneous wood products....	6	173	474	160	300	397	936	9	(D)	(D)
25	Furniture and fixtures.....	15	1,125	4,102	1,000	2,003	3,379	7,796	167	1,217	4,542
26	Pulp, paper and products....	9	2,452	11,019	1,982	4,055	7,979	16,869	3,682	1,932	(D)
27	Printing and publishing.....	41	1,023	4,140	609	1,161	2,546	6,437	205	927	5,063
271	Newspapers.....	9	511	2,080	207	404	1,010	3,447	76	(D)	(D)
275	Commercial printing.....	18	196	679	152	283	485	957	72	193	736
276	Lithographing.....	5	213	974	178	351	768	1,488	48	(D)	(D)
28	Chemicals and products.....	7	114	453	95	196	349	1,325	103	121	1,235
29	Petroleum and coal products.	3	306	(D)	275	(D)	(D)	(D)	(D)	395	(D)
30	Rubber products.....	3	1,517	(D)	1,043	(D)	(D)	(D)	(D)	(D)	(D)
31	Leather and leather goods...	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
32	Stone, clay, & glass prod...	9	159	586	118	244	392	1,304	81	289	1,937
33	Primary metal industries....	28	4,336	19,189	3,550	6,538	14,168	28,156	1,106	4,553	21,703
335	Nonferrous rolling and drawing.	4	365	1,689	273	539	1,142	2,586	106	(D)	(D)
336	Nonferrous foundries.....	6	771	3,631	612	1,199	2,567	5,432	286	343	1,644
339	Primary metal industries, nec..	9	755	3,234	581	1,108	2,290	4,397	439	1,698	7,560
34	Fabricated metal products...	52	3,441	14,512	2,750	5,225	9,964	22,049	1,000	3,688	14,960
342	Cutlery, tools, and hardware...	5	373	1,664	295	625	1,133	2,334	12	(D)	(D)
344	Structural metal products.....	15	1,110	5,087	864	1,539	3,083	7,210	84	1,045	4,593
346	Metal stamping and coating.....	15	587	2,434	469	945	1,718	3,362	129	474	1,822
349	Metal products, n.e.c.....	10	239	934	175	330	619	1,474	160	302	1,112
35	Machinery, exc. electrical..	89	10,813	47,302	8,729	17,225	35,375	94,409	2,329	14,455	71,757
354	Metalworking machinery.....	24	416	2,179	324	655	1,241	4,948	177	638	3,841
355	Special-industry mach., n.e.c..	6	201	1,147	153	316	832	1,654	55	119	744
356	General industrial machinery...	13	818	3,652	509	1,051	2,129	7,120	121	875	5,083
359	Miscellaneous machinery parts..	34	1,414	5,781	1,156	2,334	4,385	8,050	296	1,733	7,698
36	Electrical machinery.....	13	2,378	9,376	1,777	3,521	6,212	14,708	713	9,661	44,250
361	Electrical industrial apparatus	8	776	3,200	612	1,186	2,286	6,139	272	(D)	(D)
37	Transportation equipment....	9	5,326	25,778	4,180	8,301	18,160	30,121	667	265	(D)
38	Instruments & related prod..	5	1,674	8,203	1,116	2,343	4,959	13,755	1,391	1,430	(D)
39	Miscellaneous manufactures <sup>4</sup> ..	29	2,754	9,658	2,457	4,622	7,888	15,604	592	3,282	16,229
397	Plastics products, n.e.c.....	9	665	2,889	539	1,093	1,999	5,750	432	(D)	(D)
398	Miscellaneous manufactures <sup>4</sup> ....	7	226	701	195	391	579	754	25	(D)	(D)
LANCASTER STANDARD METROPOLITAN AREA (Consists of Lancaster County, Pennsylvania)											
	All industries, total <sup>1</sup> ...	612	42,545	150,619	34,663	68,491	110,273	288,553	16,059	<sup>2</sup> 39,139	<sup>2</sup> 177,965
20	Food and kindred products...	141	3,564	11,760	2,479	5,466	7,139	23,504	1,355	( <sup>3</sup> )	( <sup>3</sup> )
201	Meat products.....	14	568	1,553	442	950	1,159	2,486	185	236	1,294
202	Dairy products.....	32	745	2,735	433	1,076	1,535	6,927	363	( <sup>3</sup> )	( <sup>3</sup> )
203	Canned and frozen foods.....	4	178	437	159	335	359	821	52	164	752
204	Grain mill products.....	21	466	1,859	328	764	1,130	2,958	234	351	1,720
205	Bakery products.....	24	596	1,806	341	712	857	2,871	167	808	2,507
207	Candy and related products....	20	760	2,675	614	1,298	1,723	6,044	213	(D)	(D)
209	Miscellaneous foods.....	20	183	490	127	266	289	1,019	116	216	929
21	Tobacco manufactures.....	13	1,142	2,813	1,083	2,124	2,438	3,740	229	648	2,421
22	Textile mill products.....	37	7,123	27,451	6,240	12,633	22,866	59,656	3,018	8,847	51,205
225	Knitting mills.....	25	1,348	3,478	1,244	2,443	3,034	6,229	126	(D)	(D)

See footnotes at end of table.



Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947—Continued

Code	Industry group	Establish- ments, number	1954							1947	
			All employees		Production workers			Value added by manufacture	Capital expendi- tures, new	All employees, number	Value added by manufacture
			Number	Payroll (\$1,000)	Number	Man-hours (\$1,000)	Wages (\$1,000)				
23	Apparel & related products..	57	4,706	10,476	4,490	8,384	9,023	16,600	281	3,848	11,619
232	Men's and boys' furnishings....	5	193	352	187	295	333	551	3	575	1,393
233	Women's and misses' outerwear..	8	728	1,587	708	1,386	1,452	1,829	29	(D)	(D)
234	Women's undergarments.....	22	1,663	3,917	1,568	2,951	3,196	6,173	127	1,079	2,427
236	Children's outerwear.....	16	1,729	3,697	1,658	3,044	3,300	4,684	67	1,423	3,153
24	Lumber and wood products....	24	243	787	207	471	644	1,078	66	205	891
243	Millwork and related products..	8	145	521	121	291	422	689	49	153	547
25	Furniture and fixtures.....	16	146	443	117	246	308	611	62	172	488
251	Household furniture.....	12	130	399	104	218	271	535	35	(D)	(D)
26	Pulp, paper and products....	11	471	1,471	418	915	1,175	2,239	146	504	2,468
269	Pulp, paper and products, nec..	5	186	508	165	348	412	751	55	182	994
27	Printing and publishing.....	47	1,532	6,338	1,152	2,297	4,562	9,793	608	1,028	4,690
271	Newspapers.....	11	519	2,022	324	593	1,236	3,402	112	350	2,176
275	Commercial printing.....	19	721	3,384	598	1,307	2,700	5,123	343	580	2,093
279	Printing trade services.....	4	136	350	130	207	330	361	45	(D)	(D)
28	Chemicals and products.....	17	357	1,078	291	558	773	3,093	169	215	1,067
29	Petroleum and coal products..	3	32	(D)	24	(D)	(D)	(D)	(D)	28	(D)
30	Rubber products.....	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...	...
31	Leather and leather goods...	21	3,125	7,847	2,856	5,123	6,251	10,871	167	2,921	8,129
32	Stone, clay, & glass prod...	26	1,657	5,513	1,263	2,568	4,420	11,341	523	1,671	7,445
33	Primary metal industries....	31	1,215	4,624	1,088	2,145	3,783	6,438	470	1,080	4,415
332	Iron and steel foundries.....	13	939	3,606	849	1,655	3,004	5,133	340	696	2,572
34	Fabricated metal products...	50	3,277	12,432	2,671	5,243	8,846	20,251	3,361	3,717	15,877
342	Cutlery, tools, and hardware...	10	953	3,423	781	1,552	2,312	5,157	174	1,651	6,566
344	Structural metal products.....	14	413	1,765	315	628	1,142	3,154	812	(D)	(D)
349	Metal products, n.e.c.....	9	583	2,134	453	873	1,504	2,417	1,924	291	1,174
35	Machinery, exc. electrical..	68	4,787	21,257	3,514	7,467	14,607	49,505	1,422	4,353	26,848
356	General industrial machinery...	8	638	2,399	458	908	1,583	3,965	40	612	2,605
358	Service and household machines.	5	401	1,588	332	696	1,179	1,383	56	(D)	(D)
359	Miscellaneous machinery parts..	23	1,459	5,773	1,214	2,356	4,682	13,455	400	1,594	7,332
36	Electrical machinery.....	11	4,423	19,258	3,146	5,934	11,942	37,646	3,691	1,854	(D)
361	Electrical industrial apparatus	5	287	919	231	428	627	2,598	115	(D)	(D)
37	Transportation equipment....	7	372	1,468	310	633	1,067	1,957	48	272	(D)
38	Instruments & related prod..	6	2,752	(D)	1,834	(D)	(D)	(D)	(D)	2,866	(D)
39	Miscellaneous manufactures*.	24	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1,369	6,226
394	Toys and sporting goods.....	7	905	2,768	857	1,675	2,471	7,394	271	611	3,409
PHILADELPHIA STANDARD METROPOLITAN AREA (Consists of Bucks, Chester, Delaware, Montgomery and Philadelphia Counties, Pennsylvania; Burlington, Camden and Gloucester Counties, New Jersey)											
	All industries, total <sup>1</sup> ...	8,079	547,042	2,291,639	419,932	827,015	1,564,348	4,023,700	275,789	<sup>2</sup> 531,809	<sup>2</sup> 2,772,649
20	Food and kindred products...	803	52,636	206,281	35,855	71,677	121,627	432,019	21,524	( <sup>3</sup> )	( <sup>3</sup> )
201	Meat products.....	123	6,226	24,330	4,643	9,591	16,660	36,969	1,620	5,076	21,703
202	Dairy products.....	126	8,732	37,134	3,821	7,515	13,169	75,951	3,413	( <sup>3</sup> )	( <sup>3</sup> )
203	Canned and frozen foods.....	72	8,681	31,277	7,322	14,496	23,999	85,789	4,080	8,191	55,206
204	Grain mill products.....	23	509	1,815	342	717	1,019	6,783	197	(D)	(D)
205	Bakery products.....	170	12,408	50,312	7,653	15,550	26,913	85,201	2,230	13,145	58,176
208	Beverages.....	82	5,343	24,399	3,273	6,699	13,377	57,412	5,158	5,956	45,217
209	Miscellaneous foods.....	123	3,034	10,602	2,443	5,092	7,211	23,963	1,443	2,862	19,036
21	Tobacco manufactures.....	24	6,345	16,299	5,949	11,248	14,134	32,486	316	8,905	31,429
22	Textile mill products.....	686	43,877	150,633	38,777	73,702	116,896	228,372	9,661	64,074	312,292
222	Yarn and thread mills.....	19	898	2,803	796	1,513	1,996	4,585	261	(D)	(D)
223	Broad-woven fabrics.....	44	2,779	10,983	2,439	4,938	8,452	15,757	404	3,298	17,655
224	Narrow fabric mills.....	39	1,778	5,613	1,733	3,100	4,232	8,157	111	2,549	9,716
225	Knitting mills.....	373	16,198	48,838	14,617	27,637	38,547	76,219	2,942	21,050	98,309
226	Finishing textiles except wool.	34	2,989	12,023	2,466	5,038	8,826	15,666	614	4,121	19,322
227	Carpets and rugs.....	49	7,466	28,710	6,460	12,280	22,634	47,547	3,401	10,211	67,232
229	Miscellaneous textile goods....	54	4,388	14,857	3,791	7,144	10,638	23,801	479	4,354	19,853
23	Apparel & related products..	1,145	56,222	157,282	51,139	91,435	128,294	243,456	2,453	56,567	228,001
231	Men's and boys' suits and coats	171	17,000	55,185	15,537	27,250	45,618	78,467	501	18,497	83,970
232	Men's and boys' furnishings....	228	11,887	30,540	10,985	20,248	25,671	45,604	584	13,181	46,467
233	Women's and misses' outerwear..	300	12,505	32,557	11,472	19,912	27,019	53,489	572	12,398	49,915
234	Women's undergarments.....	36	1,719	3,514	1,604	2,605	2,931	5,699	75	1,435	4,944
236	Children's outerwear.....	111	6,567	17,115	5,874	10,907	13,830	29,192	295	5,154	19,413
238	Miscellaneous apparel.....	46	2,048	5,831	1,713	3,058	3,605	8,902	125	1,674	5,415
239	Fabricated textiles, n.e.c.....	217	3,803	10,407	3,332	6,342	7,877	18,574	273	3,755	15,364

See footnotes at end of table.

Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947—Continued

Code	Industry group	Establishments, number	1954							1947	
			All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
24	Lumber and wood products....	199	3,141	11,433	2,580	5,330	8,544	16,900	962	3,581	14,962
242	Lumber and basic products.....	41	230	595	204	409	472	1,046	75	(D)	(D)
243	Millwork and related products..	78	1,595	6,409	1,231	2,509	4,630	8,964	272	1,531	6,034
244	Wooden containers.....	32	740	2,329	656	1,396	1,875	3,036	381	1,247	4,474
249	Miscellaneous wood products....	40	557	2,055	472	982	1,526	3,693	220	621	3,636
25	Furniture and fixtures.....	321	7,324	26,236	6,187	11,964	19,772	40,158	1,107	5,837	24,741
251	Household furniture.....	199	4,346	14,175	3,754	7,253	10,829	21,846	778	3,323	13,699
252	Office furniture.....	9	641	2,482	567	1,133	2,009	3,725	117	352	2,167
253	Public & professional furniture	12	327	1,501	277	568	1,166	2,093	(D)	384	1,577
254	Partitions and fixtures.....	59	1,386	5,954	1,100	2,057	4,341	8,325	91	1,165	4,925
256	Screens, shades and blinds.....	30	416	1,261	315	612	830	1,767	44	500	2,021
259	Furniture and fixtures, n.e.c..	12	206	862	172	338	595	2,399	(D)	113	352
26	Pulp, paper and products....	250	19,416	83,143	15,716	32,728	60,027	177,053	9,131	19,320	126,057
261	Pulp, paper and board.....	28	5,450	27,775	4,376	9,828	20,703	57,421	4,039	5,796	44,682
264	Paper coating and glazing.....	17	855	3,368	681	1,263	2,448	23,021	537	658	3,638
267	Paperboard containers.....	108	7,606	28,653	6,250	12,795	20,596	50,722	2,794	6,867	46,258
269	Pulp, paper and products, nec..	70	3,826	16,433	3,043	6,161	11,556	33,952	1,360	3,951	22,055
27	Printing and publishing.....	919	35,099	163,471	22,762	44,324	100,833	296,827	10,870	32,470	203,299
271	Newspapers.....	114	7,925	36,493	3,988	7,652	19,134	59,540	3,029	6,774	36,481
272	Periodicals.....	50	6,776	35,426	2,836	5,542	14,587	99,826	2,218	7,911	78,562
273	Books.....	53	2,048	8,493	1,140	2,287	3,982	19,403	189	2,436	14,187
275	Commercial printing.....	407	9,658	43,067	7,991	15,526	34,428	60,856	3,333	7,161	34,536
276	Lithographing.....	99	3,141	15,540	2,426	4,707	10,432	23,316	1,211	2,321	12,755
278	Bookbinding & related inds.....	68	1,741	5,664	1,533	3,070	4,409	8,616	237	1,739	6,404
279	Printing trade services.....	97	3,257	17,009	2,567	4,992	13,063	22,053	515	3,613	18,500
28	Chemicals and products.....	406	29,106	134,961	17,753	35,404	69,832	356,757	39,360	27,662	218,146
281	Inorganic chemicals.....	18	1,223	5,283	871	1,677	3,298	16,770	1,981	(D)	(D)
282	Organic chemicals.....	25	10,393	51,922	6,292	12,956	28,726	124,190	21,548	9,742	59,348
283	Drugs and medicines.....	66	6,269	28,743	3,336	6,340	11,710	101,365	2,750	4,533	55,863
284	Soap and related products.....	69	2,137	9,424	1,472	2,793	4,899	22,786	998	2,621	25,322
285	Paints and allied products.....	68	4,041	18,299	2,630	5,274	10,340	46,036	2,226	3,531	26,304
288	Vegetable and animal oils.....	18	699	2,747	468	999	1,603	5,586	459	836	7,298
289	Chemical products, n.e.c.....	134	3,767	16,271	2,258	4,453	7,753	36,897	7,935	4,317	27,629
29	Petroleum and coal products..	39	18,345	97,493	14,019	27,527	69,708	186,220	67,128	16,947	140,474
291	Petroleum refining.....	7	15,148	81,897	11,852	23,172	60,360	153,902	65,710	14,315	122,996
293	Coke and byproducts.....	3	972	4,389	743	1,463	3,111	10,159	(D)	(D)	(D)
295	Paving and roofing materials...	14	491	2,168	362	762	1,524	5,298	324	(D)	(D)
299	Petroleum & coal products, nec.	15	1,733	9,038	1,061	2,129	4,712	16,860	(D)	700	6,146
30	Rubber products.....	57	8,541	38,676	7,017	13,933	29,946	94,204	10,693	8,827	53,376
301	Tires and inner tubes.....	3	4,454	22,247	3,838	7,728	18,656	65,131	9,244	5,248	39,188
31	Leather and leather goods....	138	7,852	25,451	6,946	13,015	20,348	37,510	642	10,631	50,603
311	Leather tanning and finishing...	27	3,507	13,209	3,117	6,088	10,535	17,873	405	4,811	27,596
313	Footwear cut stock.....	6	200	523	173	316	424	815	12	558	1,393
314	Footwear, except rubber.....	26	2,319	7,209	1,996	3,811	5,705	11,100	98	2,577	9,109
316	Luggage.....	38	493	1,491	450	914	1,312	2,628	32	941	5,086
317	Purses and small leather goods.	19	945	1,777	889	1,311	1,505	2,791	44	1,187	4,177
32	Stone, clay, & glass prod....	256	10,775	47,474	8,544	17,573	32,658	88,067	5,520	10,848	55,962
322	Pressed and blown glassware....	12	295	1,306	274	610	1,133	2,186	217	(D)	(D)
323	Products of purchased glass....	33	811	3,112	637	1,177	1,983	6,069	171	1,212	5,192
325	Structural clay products.....	19	1,824	7,636	1,580	3,442	5,882	14,179	1,220	1,398	6,862
326	Pottery and related products...	15	434	1,836	368	775	1,490	3,125	80	507	2,682
327	Concrete and plaster products...	83	1,824	7,239	1,418	3,110	5,254	15,034	1,414	1,450	7,509
328	Cut-stone and stone products...	20	442	2,628	341	685	1,262	4,951	36	(D)	(D)
329	Nonmet. mineral prod., n.e.c....	74	5,142	23,716	3,924	7,774	15,651	42,520	2,379	5,315	29,108
33	Primary metal industries....	177	32,724	155,611	26,408	52,816	114,401	236,054	30,701	28,012	131,607
331	Blast furnaces and steel mills...	12	16,952	83,093	13,130	26,179	59,781	115,623	25,602	10,962	50,788
332	Iron and steel foundries.....	42	6,464	28,517	5,428	10,657	21,760	45,596	1,940	7,406	32,664
334	Secondary nonferrous metals...	16	970	4,080	795	1,521	2,627	8,124	286	1,341	7,629
335	Nonferrous rolling and drawing.	9	704	2,869	629	1,301	2,360	4,179	143	1,688	7,793
336	Nonferrous foundries.....	53	3,097	15,421	2,673	5,419	12,146	22,054	815	2,818	14,493
339	Primary metal industries, nec..	45	4,535	21,629	3,751	7,736	15,725	40,475	1,914	3,484	17,726
34	Fabricated metal products...	887	47,315	206,598	38,286	77,444	153,249	337,680	12,768	47,690	224,630
341	Tin cans and other tinware....	7	3,210	13,237	2,857	5,819	11,349	28,198	892	2,918	13,794
342	Cutlery, tools, and hardware...	61	3,939	15,677	3,139	6,143	11,504	25,136	865	4,732	19,360
343	Heating and plumbing equipment.	50	3,432	14,759	2,591	5,141	9,970	29,526	1,495	4,394	22,967
344	Structural metal products.....	331	14,779	66,530	11,798	24,396	48,712	108,504	5,270	10,947	50,007
346	Metal stamping and coating....	156	10,408	53,218	8,209	16,493	39,003	73,170	1,865	15,960	77,595
347	Lighting fixtures.....	88	3,156	10,755	2,682	5,408	7,738	19,880	337	2,475	12,670
348	Fabricated wire products.....	64	2,720	10,344	2,402	4,749	8,374	15,616	376	1,873	7,147
349	Metal products, n.e.c.....	130	5,668	22,077	4,605	9,291	16,596	37,648	1,664	4,391	21,090
35	Machinery, exc. electrical...	845	46,494	220,545	33,671	68,588	143,810	348,013	18,766	46,837	222,674
351	Engines and turbines.....	4	9,671	53,083	6,985	14,607	37,013	82,301	(D)	(D)	(D)
352	Farm machinery (exc. tractors).	14	513	2,133	390	854	1,471	4,095	105	1,315	7,230
353	Construction & mining machinery	7	562	2,277	349	688	1,300	2,710	301	(D)	(D)
354	Metalworking machinery.....	199	2,645	13,792	2,215	4,713	10,434	21,944	1,156	(D)	(D)
355	Special-industry mach., n.e.c...	132	8,137	38,234	5,930	11,999	24,310	56,085	2,479	10,696	56,887
356	General industrial machinery...	88	10,169	46,461	6,463	12,881	25,078	78,362	2,986	10,129	52,836
357	Office and store machines.....	19	1,296	5,635	1,113	2,508	4,381	8,315	176	246	960
358	Service and household machines.	39	1,858	7,597	1,363	2,651	4,654	13,098	578	4,414	10,651
359	Miscellaneous machinery parts..	343	11,641	51,331	8,859	17,683	35,165	81,099	(D)	11,330	54,014

See footnotes at end of table.



Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947—Continued

Code	Industry group	Establish- ments, number	1954							1947	
			All employees		Production workers			Value added by manufacture	Capital expendi- tures, new	All employees, number	Value added by manufacture
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
36	Electrical machinery.....	191	49,944	219,582	34,466	68,172	134,349	387,143	14,289	38,540	203,468
361	Electrical industrial apparatus	71	13,611	63,913	8,951	17,768	38,377	130,739	4,705	9,431	59,811
362	Electrical appliances.....	8	1,038	4,003	689	1,530	2,503	3,891	282	1,692	9,477
366	Communication equipment.....	86	32,269	138,422	22,598	44,956	84,792	237,194	8,343	22,912	116,227
369	Electrical products, n.e.c.....	14	2,159	10,460	1,504	2,507	6,656	11,618	861	3,488	13,430
37	Transportation equipment....	101	42,516	214,278	32,095	67,071	151,587	297,369	14,208	33,487	152,454
371	Motor vehicles and equipment...	37	4,545	23,004	3,692	8,025	17,844	42,718	3,179	12,194	68,798
372	Aircraft and parts.....	36	20,244	103,690	13,490	29,452	63,778	150,846	1,683	(D)	(D)
38	Instruments & related prod...	142	12,861	56,030	8,143	15,967	31,148	85,772	2,172	10,508	46,999
382	Mech. measuring instruments....	35	9,616	44,311	5,623	10,933	23,415	67,509	1,689	6,431	31,960
384	Medical equipment and supplies.	57	1,918	6,807	1,504	2,928	4,344	10,553	278	2,775	10,851
386	Photographic goods.....	14	270	1,020	165	339	570	1,273	45	117	380
39	Miscellaneous manufactures <sup>4</sup> .	493	16,498	60,154	13,608	27,087	43,175	101,627	3,509	14,705	67,318
391	Jewelry and silverware.....	52	445	1,572	366	700	1,155	2,691	44	(D)	(D)
393	Musical instruments and parts..	4	379	1,827	336	701	1,428	2,548	44	617	3,652
394	Toys and sporting goods.....	71	2,842	8,816	2,427	4,673	6,662	16,094	714	2,033	7,584
395	Office supplies.....	29	1,506	6,216	1,007	2,072	3,532	12,493	205	1,938	8,564
396	Costume jewelry and notions....	29	735	2,028	646	1,297	1,569	3,932	63	(D)	(D)
397	Plastic products, n.e.c.....	76	3,978	16,141	3,280	6,710	12,055	26,676	1,751	3,110	16,910
398	Miscellaneous manufactures <sup>4</sup> ....	232	6,611	23,553	5,543	10,931	16,771	37,191	685	5,205	23,731
PITTSBURGH STANDARD METROPOLITAN AREA (Consists of Allegheny, Beaver, Washington and Westmoreland Counties, Pennsylvania)											
	All industries, total <sup>1</sup> ...	2,381	303,408	1,364,413	239,450	454,510	995,118	2,480,530	164,002	<sup>2</sup> 337,928	<sup>2</sup> 1,704,327
20	Food and kindred products...	431	21,646	88,834	13,782	27,177	49,720	155,608	7,341	( <sup>3</sup> )	( <sup>3</sup> )
201	Meat products.....	56	3,266	13,862	2,221	4,739	9,074	16,620	309	3,220	15,680
202	Dairy products.....	119	4,831	21,960	1,967	3,956	7,416	38,052	2,548	( <sup>3</sup> )	( <sup>3</sup> )
203	Canned and frozen foods.....	7	2,235	7,458	1,967	3,791	6,303	10,141	944	(D)	(D)
204	Grain mill products.....	5	154	595	101	139	246	826	3	658	3,428
205	Bakery products.....	92	5,030	20,375	3,308	6,451	11,662	38,933	649	6,597	30,536
207	Candy and related products....	26	1,416	4,425	1,076	1,961	2,821	7,026	78	1,985	12,263
208	Beverages.....	80	3,584	16,576	2,339	4,593	10,077	35,544	2,282	3,622	31,888
209	Miscellaneous foods.....	46	1,127	3,881	800	1,543	2,118	8,463	526	1,250	8,449
21	Tobacco manufactures.....	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	78	150
22	Textile mill products.....	3	296	817	261	424	601	1,146	7	877	4,156
23	Apparel & related products..	81	2,243	5,678	1,875	3,584	3,999	8,845	120	1,381	4,668
231	Men's and boys' suits and coats	6	116	265	13	207	28	471	...	(D)	(D)
232	Men's and boys' furnishings....	10	356	761	324	637	589	1,344	31	347	905
233	Women's and misses' outerwear..	8	478	1,113	449	798	945	1,551	31	213	473
238	Miscellaneous apparel.....	4	189	409	163	278	323	569	1	(D)	(D)
239	Fabricated textiles, n.e.c.....	47	863	2,548	701	1,275	1,658	4,162	52	629	2,251
24	Lumber and wood products....	76	835	3,192	659	1,243	1,987	5,708	219	1,049	(D)
242	Lumber and basic products.....	35	211	610	169	317	431	635	58	(D)	(D)
243	Millwork and related products..	18	317	1,607	229	445	842	3,571	103	(D)	(D)
244	Wooden containers.....	13	207	655	171	302	429	972	21	378	1,552
25	Furniture and fixtures.....	73	2,109	7,676	1,723	3,242	5,656	13,558	424	1,006	4,318
251	Household furniture.....	34	1,213	4,474	973	1,767	3,111	7,935	230	565	2,758
254	Partitions and fixtures.....	21	285	1,002	229	439	816	1,433	33	128	554
256	Screens, shades, and blinds....	10	201	618	157	305	418	1,140	44	179	623
26	Pulp, paper and products....	35	3,199	12,531	2,576	5,172	8,957	22,632	720	2,613	15,300
267	Paperboard containers.....	20	2,369	9,340	1,871	3,691	6,558	16,420	587	(D)	(D)
269	Pulp, paper and products, nec..	8	490	1,766	422	904	1,347	3,200	90	(D)	(D)
27	Printing and publishing.....	344	8,964	42,236	5,491	10,836	24,704	63,559	2,970	7,890	44,949
271	Newspapers.....	70	4,634	23,550	2,317	4,769	12,217	35,838	1,743	4,218	27,818
272	Periodicals.....	19	133	679	...	...	...	1,359	9	267	1,382
273	Books.....	12	168	614	143	312	464	977	139	222	1,166
275	Commercial printing.....	148	2,060	8,571	1,582	2,975	6,063	12,676	647	2,130	9,149
276	Lithographing.....	34	1,075	5,252	874	1,653	3,660	7,546	241	401	2,125
278	Bookbinding & related inds....	17	174	556	151	293	423	789	12	144	558
279	Printing trade services.....	37	439	2,271	308	574	1,498	3,293	120	393	2,330
28	Chemicals and products.....	111	6,373	30,261	4,180	8,259	16,949	71,934	12,010	5,745	38,252
282	Organic chemicals.....	9	2,925	14,685	2,155	4,405	9,651	37,264	9,549	2,180	10,238
284	Soap and related products.....	18	267	774	130	179	323	1,173	14	165	1,192
285	Paints and allied products....	23	1,484	7,451	795	1,586	2,924	15,631	1,845	1,250	9,040
288	Vegetable and animal oils.....	9	168	780	100	231	384	1,240	55	182	1,297
289	Chemical products, n.e.c.....	36	1,022	4,318	655	1,193	2,314	12,700	394	1,102	6,903
29	Petroleum and coal products..	35	6,698	30,723	5,569	10,497	23,569	98,072	16,458	7,728	61,988
293	Coke and byproducts.....	16	5,880	26,782	4,921	9,189	20,612	92,367	(D)	6,526	53,606
30	Rubber products.....	11	1,122	4,497	879	1,824	3,245	6,452	435	2,492	(D)
309	Rubber industries, n.e.c.....	11	1,122	4,497	879	1,824	3,245	6,452	435	(D)	(D)

See footnotes at end of table.



Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947—Continued

Code	Industry group	Establishments, number	1954							1947	
			All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
31	Leather and leather goods...	8	137	369	122	243	312	630	15	330	1,089
316	Luggage.....	4	104	287	95	200	247	502	13	223	835
32	Stone, clay, & glass prod...	213	20,293	83,262	17,769	34,405	69,707	145,029	10,275	25,175	117,530
322	Pressed and blown glassware....	24	8,631	31,274	7,840	14,548	26,932	45,612	1,434	11,315	40,927
323	Products of purchased glass....	29	931	3,630	765	1,467	2,852	7,360	207	608	2,090
324	Cement, hydraulic.....	3	616	2,914	489	1,038	2,241	8,303	4,026	(D)	(D)
325	Structural clay products.....	29	1,501	5,734	1,351	2,639	4,960	8,689	619	1,570	6,271
326	Pottery and related products...	11	1,918	6,770	1,664	3,179	5,330	9,042	450	2,314	9,333
328	Cut-stone and stone products...	14	114	428	89	181	320	817	20	135	700
329	Nonmet. mineral prod., n.e.c....	34	1,082	4,686	862	1,697	3,387	10,062	795	1,977	10,392
33	Primary metal industries....	178	128,626	589,969	108,297	200,176	463,152	992,416	76,369	148,265	703,968
331	Blast furnaces and steel mills...	49	100,856	463,436	85,564	156,794	367,523	785,662	68,378	119,141	567,665
332	Iron and steel foundries.....	51	10,199	44,820	8,728	15,838	34,569	66,165	2,076	13,198	3,060
335	Nonferrous rolling and drawing...	8	3,025	13,299	2,224	4,335	8,956	21,386	1,367	(D)	(D)
336	Nonferrous foundries.....	26	2,007	9,063	1,568	3,315	6,584	10,376	693	(D)	(D)
339	Primary metal industries, nec..	37	10,735	49,742	9,085	17,811	40,432	85,406	3,363	8,551	44,341
34	Fabricated metal products...	295	30,360	134,219	24,079	46,205	95,134	224,890	9,544	35,096	158,082
342	Cutlery, tools, and hardware...	18	1,352	6,033	1,041	2,008	3,742	9,453	192	1,394	6,492
343	Heating and plumbing equipment...	19	1,028	4,241	841	1,498	3,148	8,007	329	2,784	9,858
344	Structural metal products.....	129	15,574	73,120	12,338	24,411	51,578	135,753	4,515	13,081	63,914
346	Metal stamping and coating....	44	3,996	15,336	3,285	5,999	11,510	19,959	1,395	7,017	26,559
347	Lighting fixtures.....	15	624	2,239	516	1,028	1,594	4,675	98	965	4,798
348	Fabricated wire products.....	26	882	3,580	729	1,449	2,748	5,730	331	(D)	(D)
35	Machinery, exc. electrical...	260	20,768	98,333	15,736	29,368	67,799	175,556	7,142	22,863	117,877
354	Metalworking machinery.....	54	7,253	34,909	5,836	11,667	26,150	63,315	1,942	4,936	27,172
355	Special-industry mach., n.e.c....	16	769	3,700	571	1,145	2,531	5,813	218	1,261	7,106
356	General industrial machinery...	40	3,246	15,580	2,084	3,979	8,636	22,567	1,372	2,995	17,764
359	Miscellaneous machinery parts...	126	6,335	29,191	4,994	8,126	20,902	59,093	1,981	7,247	34,271
36	Electrical machinery.....	52	28,080	129,462	20,314	39,517	87,419	320,265	7,134	31,203	191,538
361	Electrical industrial apparatus	33	20,951	99,683	15,486	30,153	68,792	269,673	5,641	(D)	(D)
37	Transportation equipment....	21	10,985	55,661	8,230	16,542	40,302	91,353	8,915	14,548	76,321
371	Motor vehicles and equipment...	12	4,794	27,729	4,045	8,973	22,837	59,364	7,663	(D)	(D)
38	Instruments & related prod...	30	4,367	19,272	3,064	6,033	12,818	37,277	1,663	4,240	20,097
381	Scientific instruments.....	5	525	2,155	406	788	1,577	5,532	...	(D)	(D)
39	Miscellaneous manufactures <sup>4</sup> ...	120	6,275	27,385	4,814	9,727	19,062	45,557	2,234	4,110	22,333
391	Jewelry and silverware.....	6	101	394	73	139	258	523	2	104	498
394	Toys and sporting goods.....	13	680	2,110	590	1,192	1,501	2,909	54	749	2,626
395	Office supplies.....	11	651	2,937	416	838	1,550	3,980	106	520	2,165
397	Plastics products, n.e.c.....	22	1,482	6,828	1,086	2,284	4,610	8,544	501	1,065	6,638
398	Miscellaneous manufactures <sup>4</sup> ....	64	3,351	15,094	2,640	5,263	11,130	29,549	1,570	1,623	10,297
READING STANDARD METROPOLITAN AREA (Consists of Berks County, Pennsylvania)											
	All industries, total <sup>1</sup> ...	669	49,130	167,369	41,468	78,141	126,928	294,269	17,415	<sup>2</sup> 53,024	<sup>2</sup> 230,161
20	Food and kindred products...	122	4,331	13,285	3,096	6,241	8,129	25,309	1,543	( <sup>3</sup> )	( <sup>3</sup> )
201	Meat products.....	13	512	1,957	372	706	1,312	2,628	159	458	2,342
202	Dairy products.....	20	447	1,684	195	379	587	3,087	288	( <sup>3</sup> )	( <sup>3</sup> )
205	Bakery products.....	31	1,245	3,909	815	1,612	2,206	6,348	640	923	3,418
207	Candy and related products....	18	1,413	3,229	1,283	2,733	2,753	7,509	241	(D)	(D)
208	Beverages.....	16	474	1,927	230	465	877	4,110	107	506	3,403
209	Miscellaneous foods.....	12	116	257	104	191	205	795	28	(D)	(D)
21	Tobacco manufactures.....	4	145	(D)	128	(D)	(D)	(D)	(D)	(D)	(D)
22	Textile mill products.....	151	13,401	36,689	12,204	21,682	30,414	52,555	2,171	17,609	67,664
225	Knitting mills.....	131	11,676	31,130	10,677	18,669	26,120	44,889	1,693	15,140	58,943
227	Carpets and rugs.....	3	120	248	109	180	205	347	4	(D)	(D)
23	Apparel & related products...	52	3,706	8,298	3,426	6,279	6,905	12,397	189	4,651	12,319
231	Men's and boys' suits and coats	4	370	1,195	353	685	1,047	2,141	5	(D)	(D)
232	Men's and boys' furnishings....	16	1,399	3,049	1,273	2,220	2,567	4,248	27	1,416	3,997
234	Women's undergarments.....	12	879	1,962	822	1,468	1,488	2,906	79	787	2,539
239	Fabricated textiles, n.e.c.....	6	197	433	169	333	347	941	15	(D)	(D)
24	Lumber and wood products....	24	293	968	255	583	773	1,097	51	489	1,996
25	Furniture and fixtures.....	12	215	695	176	340	495	1,084	45	114	524
26	Pulp, paper and products....	23	1,495	6,054	1,286	2,649	4,781	10,709	264	1,371	7,606
261	Pulp, paper and board.....	5	237	1,075	206	463	838	2,123	68	(D)	(D)
267	Paperboard containers.....	14	970	3,808	850	1,696	3,137	6,941	155	887	4,083
27	Printing and publishing.....	42	863	3,293	674	1,207	2,221	6,015	610	617	3,039
271	Newspapers.....	8	493	2,142	378	662	1,385	4,365	505	(D)	(D)
275	Commercial printing.....	20	163	513	125	234	404	660	60	115	396

See footnotes at end of table.

Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947—Continued

Code	Industry group	Establishments, number	1954							1947	
			All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
28	Chemicals and products.....	23	937	4,222	547	1,092	1,787	9,865	1,925	825	5,817
282	Organic chemicals.....	3	139	844	87	201	326	1,972	100	(D)	(D)
289	Chemical products, n.e.c.....	4	182	755	84	176	275	1,232	76	(D)	(D)
29	Petroleum and coal products.	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
31	Leather and leather goods...	13	1,724	4,444	1,561	2,901	3,509	6,546	102	1,321	5,209
314	Footwear, except rubber.....	9	1,379	3,629	1,229	2,282	2,793	5,351	72	(D)	(D)
32	Stone, clay, & glass prod...	14	649	2,735	558	1,203	2,221	7,000	226	687	2,578
33	Primary metal industries....	38	5,838	25,097	4,734	9,259	18,789	49,816	4,241	6,545	31,374
332	Iron and steel foundries.....	15	2,187	8,103	1,909	3,519	6,306	11,684	879	2,988	13,359
336	Nonferrous foundries.....	15	150	564	131	246	423	827	10	150	706
34	Fabricated metal products...	43	2,528	(D)	2,046	(D)	(D)	(D)	(D)	2,758	12,924
342	Cutlery, tools, and hardware...	9	400	1,327	357	682	1,037	2,027	60	856	4,106
343	Heating and plumbing equipment.	4	1,579	5,592	1,246	2,234	4,170	10,384	586	1,118	5,236
346	Metal stamping and coating....	7	140	454	120	244	350	679	...	111	700
35	Machinery, exc. electrical..	56	6,777	28,026	5,467	10,517	20,925	45,672	1,963	7,098	34,928
355	Special-industry machinery, nec	7	4,219	18,114	3,364	6,441	13,302	27,700	1,252	(D)	(D)
356	General industrial machinery...	8	408	1,779	309	604	1,164	4,840	187	513	3,737
359	Miscellaneous machinery parts..	23	1,258	4,725	1,047	1,956	3,809	7,022	169	(D)	(D)
36	Electrical machinery.....	11	1,272	4,876	1,052	2,024	3,383	12,177	529	1,008	6,510
369	Electrical products, n.e.c.....	4	620	2,614	522	1,082	1,901	7,188	120	(D)	(D)
37	Transportation equipment....	10	2,724	12,049	2,433	4,752	10,373	23,461	1,170	2,108	9,268
38	Instruments & related prod..	3	906	(D)	728	(D)	(D)	(D)	(D)	1,069	(D)
39	Miscellaneous manufactures <sup>4</sup> .	26	(D)	(D)	(D)	(D)	(D)	(D)	(D)	955	3,471
YORK STANDARD METROPOLITAN AREA (Consists of York County, Pennsylvania)											
	All industries, total <sup>1</sup> ...	624	45,275	161,621	36,004	73,778	113,767	282,942	18,262	<sup>2</sup> 42,117	<sup>2</sup> 189,999
20	Food and kindred products...	122	3,814	12,578	2,716	5,730	7,630	22,638	1,438	( <sup>3</sup> )	( <sup>3</sup> )
202	Dairy products.....	22	639	2,187	299	683	965	3,222	605	( <sup>3</sup> )	( <sup>3</sup> )
203	Canned and frozen foods.....	15	768	2,018	684	1,378	1,451	3,260	184	961	3,459
204	Grain mill products.....	20	521	2,167	383	896	1,392	4,257	242	399	3,462
205	Bakery products.....	26	993	3,347	657	1,394	2,026	7,644	172	965	5,353
207	Candy and related products....	8	281	665	258	465	551	1,113	93	242	967
209	Miscellaneous foods.....	20	454	1,639	338	697	968	2,227	112	303	1,120
21	Tobacco manufactures.....	56	2,404	5,247	2,169	4,080	4,413	9,652	241	2,871	8,737
212	Cigars.....	50	2,333	4,998	2,108	3,978	4,268	9,237	234	2,772	7,962
22	Textile mill products.....	33	3,310	10,267	3,068	6,202	8,586	14,267	482	3,029	12,215
223	Broad woven fabrics.....	5	915	3,100	869	1,754	2,812	3,173	46	822	4,169
225	Knitting mills.....	15	971	2,500	903	1,655	2,114	3,716	112	790	2,751
229	Miscellaneous textile goods....	4	731	2,144	682	1,345	1,740	4,042	231	(D)	(D)
23	Apparel & related products..	58	4,595	9,993	4,395	8,446	9,228	11,963	44	4,668	10,104
232	Men's and boys' furnishings....	18	1,797	3,942	1,719	3,151	3,611	4,688	15	2,658	6,037
233	Women's and misses' outerwear..	15	1,401	2,762	1,353	2,539	2,679	3,464	14	741	1,368
236	Children's outerwear.....	14	722	1,658	693	1,317	1,541	2,009	8	(D)	(D)
24	Lumber and wood products....	36	562	1,197	522	1,038	1,079	2,074	39	471	(D)
244	Wooden containers.....	6	393	771	372	744	708	1,396	16	(D)	(D)
25	Furniture and fixtures.....	43	3,556	12,092	3,123	6,575	9,826	19,650	469	2,711	11,462
251	Household furniture.....	33	2,333	7,830	2,023	4,257	6,195	12,288	405	(D)	(D)
26	Pulp, paper and products....	21	2,344	10,457	1,973	4,626	8,192	21,710	4,417	2,667	22,394
261	Pulp, paper and board.....	9	1,609	7,953	1,363	3,375	6,318	17,350	4,227	1,415	14,103
267	Paperboard containers.....	7	355	1,040	296	599	768	2,155	163	(D)	(D)
27	Printing and publishing.....	53	1,799	7,234	1,374	2,786	5,026	12,544	481	965	4,321
271	Newspapers.....	6	323	1,453	182	366	832	2,267	22	292	1,316
275	Commercial printing.....	27	451	1,650	325	627	1,029	4,083	129	231	965
279	Printing trade services.....	9	106	604	86	171	442	810	22	365	1,695
28	Chemicals and products.....	13	246	922	172	353	527	1,755	87	189	888
29	Petroleum and coal products.	7	321	1,213	261	559	924	3,123	204	(D)	(D)
30	Rubber products.....	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...	...
31	Leather and leather goods...	14	1,867	4,724	1,720	3,313	3,832	9,221	274	1,999	8,375
314	Footwear, except rubber.....	5	1,403	3,585	1,300	2,495	2,938	6,993	73	(D)	(D)
32	Stone, clay, & glass prod...	26	923	3,402	798	1,743	2,753	6,425	2,363	790	3,648
327	Concrete and plaster products..	14	383	1,460	317	733	1,101	2,998	104	275	1,336

See footnotes at end of table.



Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947—Continued

Code	Industry group	Establishments, number	1954							1947	
			All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
33	Primary metal industries....	18	1,422	5,481	1,246	2,441	4,281	10,348	265	1,922	9,807
332	Iron and steel foundries.....	7	495	1,619	443	788	1,383	2,602	71	(D)	(D)
339	Primary metal industries, nec..	6	852	3,569	737	1,536	2,688	7,365	179	(D)	(D)
34	Fabricated metal products..	32	3,860	14,241	3,012	6,123	10,506	24,109	909	4,170	23,067
342	Cutlery, tools, and hardware...	3	143	518	126	254	423	792	9	171	689
344	Structural metal products.....	6	186	827	137	289	519	1,252	37	(D)	(D)
346	Metal stamping and coating.....	8	562	2,037	400	899	1,534	3,199	360	(D)	(D)
348	Fabricated wire products.....	8	2,184	8,107	1,784	3,571	6,245	15,360	434	(D)	(D)
35	Machinery, exc. electrical..	60	9,155	41,689	5,794	11,660	22,343	75,033	4,290	9,430	39,542
354	Metalworking machinery.....	17	258	1,008	223	493	831	1,494	158	314	1,680
355	Special-industry mach., n.e.c..	9	852	3,505	624	1,378	2,415	5,403	110	1,131	5,455
359	Miscellaneous machinery parts..	20	236	903	180	403	570	2,010	318	(D)	(D)
36	Electrical machinery.....	7	734	2,946	488	996	1,556	7,045	1,229	211	1,363
361	Electrical industrial apparatus	4	708	2,880	466	951	1,504	6,936	1,212	(D)	(D)
37	Transportation equipment....	4	323	(D)	269	(D)	(D)	(D)	(D)	610	2,613
38	Instruments & related prod..	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
39	Miscellaneous manufactures <sup>4</sup> ..	17	3,260	14,281	2,491	5,278	10,046	22,281	705	1,163	4,819
398	Miscellaneous manufactures <sup>4</sup> ....	12	2,755	12,496	2,097	4,522	8,748	19,626	650	(D)	(D)
"All manufacturing" totals for the Youngstown Standard Metropolitan Area (which includes Mercer County in Pennsylvania) appear in Table 3. Industry group statistics for this area are shown in the 1954 Census of Manufactures report for the State of Ohio											

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industry groups (3-digit) are not shown. Industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "All industries" line.

<sup>2</sup>The 1954 and 1947 "All industries" totals are not strictly comparable because of differences in scope between the two years in Major Group 20 (see footnote 3).

<sup>3</sup>Comparable data for Major Group 20 are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude plants processing and distributing fluid milk which in 1954 were classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
20	Food and kindred products except Subgroup 202, Dairy Products:				
	Allentown-Bethlehem-Easton Standard Metropolitan Area..	3,176	18,277	3,300	14,000
	Erie Standard Metropolitan Area.....	1,586	14,393	1,550	8,500
	Lancaster Standard Metropolitan Area.....	2,819	16,577	3,200	14,500
	Philadelphia, Pa. Standard Metropolitan Area.....	43,904	356,068	44,657	253,178
	Pittsburgh Standard Metropolitan Area.....	16,815	117,556	20,400	114,000
	Reading Standard Metropolitan Area.....	3,884	22,222	3,300	19,000
	York Standard Metropolitan Area.....	3,175	19,416	3,000	17,000

<sup>4</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)



Table 6.—GENERAL STATISTICS FOR PRINCIPAL INDUSTRIAL COUNTIES, BY MAJOR INDUSTRY GROUP: 1954 AND 1947

(Principal industrial counties include all counties with 20,000 or more manufacturing employees. For explanation of column captions see Introduction)

Code	Major industry group	1954								1947	
		Establish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
		ALLEGHENY COUNTY									
	All industries, total <sup>1</sup> .....	1,680	194,898	889,005	150,178	284,914	628,904	1,653,928	106,697	<sup>2</sup> 222,460	<sup>2</sup> 1,139,275
20	Food and kindred products.....	270	18,930	78,671	11,994	23,895	44,213	134,166	6,253	19,029	107,122
23	Apparel and related products...	65	1,349	3,723	1,132	2,083	2,520	5,923	71	1,149	4,042
24	Lumber and wood products.....	33	440	1,828	336	617	1,033	3,384	96	479	(D)
25	Furniture and fixtures.....	63	1,958	7,160	1,595	2,993	5,288	12,843	407	853	3,804
26	Pulp, paper and products.....	26	2,270	8,759	1,824	3,640	6,076	16,160	526	2,206	(D)
27	Printing and publishing.....	281	7,311	35,684	4,513	8,829	20,728	53,749	2,602	6,560	39,176
28	Chemicals and products.....	88	4,381	20,682	2,758	5,351	10,641	48,676	8,176	4,384	24,326
29	Petroleum and coal products....	17	5,054	23,628	4,160	7,782	17,837	69,998	15,268	5,382	48,561
31	Leather and leather goods.....	8	137	369	122	243	312	630	15	330	1,089
32	Stone, clay, & glass products..	115	7,642	36,377	6,508	13,159	29,945	73,956	7,556	9,641	42,904
33	Primary metal industries.....	100	73,625	335,017	61,811	112,819	259,172	582,282	39,891	89,441	410,308
34	Fabricated metal products.....	231	18,070	77,462	14,243	26,887	53,999	130,792	6,091	19,393	87,387
35	Machinery, except electrical...	193	14,447	72,399	11,030	20,934	50,344	129,882	4,386	16,135	88,083
36	Electrical machinery.....	36	20,496	98,569	14,216	27,813	64,759	244,404	4,644	28,022	170,104
37	Transportation equipment.....	17	10,826	55,096	8,101	16,304	39,883	90,538	8,882	13,855	69,034
39	Miscellaneous manufactures <sup>3</sup> ....	100	4,985	21,304	3,862	7,787	14,964	33,201	1,014	2,589	12,468
		BEAVER COUNTY									
	All industries, total <sup>1</sup> .....	194	47,005	210,626	38,833	73,622	162,453	394,118	26,833	<sup>2</sup> 44,428	<sup>2</sup> 233,149
20	Food and kindred products.....	42	724	2,651	441	845	1,285	4,839	225	391	2,087
24	Lumber and wood products.....	5	105	348	85	149	223	502	29	163	(D)
26	Pulp, paper and products.....	4	564	2,382	452	930	1,788	3,683	103	(D)	(D)
27	Printing and publishing.....	11	274	1,100	138	297	605	1,819	52	174	962
28	Chemicals and products.....	12	1,322	6,570	953	1,969	4,439	17,339	2,685	764	6,371
29	Petroleum and coal products....	4	1,306	5,697	1,115	2,172	4,590	23,061	1,150	1,522	6,687
31	Stone, clay, & glass products..	31	1,955	7,203	1,740	3,361	6,019	12,184	582	2,153	7,776
33	Primary metal industries.....	30	29,040	130,033	24,543	45,243	103,710	219,208	18,030	28,322	152,198
34	Fabricated metal products.....	20	6,966	34,340	5,686	11,500	25,026	61,413	1,480	7,585	36,946
35	Machinery, except electrical...	16	1,001	4,807	804	1,606	3,524	9,597	428	1,490	7,017
		Berks County is coextensive with the Reading Standard Metropolitan Area. Data for this area are shown in Table 5.									
		BUCKS COUNTY									
	All industries, total <sup>1</sup> .....	437	35,584	153,950	27,415	56,478	110,161	262,728	15,800	<sup>2</sup> 17,136	<sup>2</sup> 73,685
20	Food and kindred products.....	53	1,071	3,016	782	1,434	1,722	5,626	423	(NA)	(NA)
22	Textile mill products.....	83	2,230	7,066	1,996	3,812	5,786	9,683	442		
23	Apparel and related products...	33	3,060	8,348	2,910	5,149	7,474	11,821	53		
24	Lumber and wood products.....	15	306	1,041	243	513	846	2,102	151		
25	Furniture and fixtures.....	17	272	909	225	454	646	1,599	32		
26	Pulp, paper and products.....	15	2,244	9,569	1,663	3,456	6,405	33,040	598		
27	Printing and publishing.....	27	333	1,091	167	333	643	1,389	148		
28	Chemicals and products.....	17	2,924	14,022	2,047	4,132	8,774	47,301	5,384		
30	Rubber products.....	6	471	1,840	338	691	1,176	2,704	183		
32	Stone, clay, & glass products..	32	1,006	3,624	863	1,823	2,862	5,538	424		
34	Fabricated metal products.....	34	1,584	6,846	1,417	3,074	6,116	10,935	1,163		
35	Machinery, except electrical...	44	1,040	4,364	721	1,518	2,818	6,360	394		
36	Electrical machinery.....	9	1,212	4,002	1,145	1,973	3,492	3,817	36		
39	Miscellaneous manufactures <sup>3</sup> ....	18	938	3,223	798	1,631	2,522	4,779	109		
		CAMBERIA COUNTY									
	All industries, total <sup>1</sup> .....	180	20,867	77,628	17,496	29,941	59,810	113,224	6,645	<sup>2</sup> 22,249	<sup>2</sup> 95,796
20	Food and kindred products.....	45	1,208	3,916	691	1,387	1,868	5,739	329	1,010	4,009
23	Apparel and related products...	13	2,700	5,367	2,569	4,747	4,704	8,739	157	1,947	(D)
37	Transportation equipment.....	5	1,048	4,183	928	1,551	3,481	7,922	395	(D)	(D)

See footnotes at end of table.

## MANUFACTURES—AREA STATISTICS

Table 6.—GENERAL STATISTICS FOR PRINCIPAL INDUSTRIAL COUNTIES, BY MAJOR INDUSTRY GROUP: 1954 AND 1947--Continued

(Principal industrial counties include all counties with 20,000 or more manufacturing employees. For explanation of column captions see Introduction)

Code	Major industry group	1954							1947		
		Establish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
DAUPHIN COUNTY											
	All industries, total <sup>1</sup> .....	273	23,956	82,753	19,902	36,844	62,019	140,962	8,718	<sup>2</sup> 23,189	<sup>2</sup> 114,307
20	Food and kindred products.....	88	5,604	19,680	4,265	8,389	13,706	49,941	2,075	5,632	46,353
23	Apparel and related products..	30	3,426	7,569	3,276	5,948	6,784	9,925	84	2,141	5,704
27	Printing and publishing.....	36	1,423	5,997	983	1,912	4,119	9,113	555	1,521	6,413
31	Leather and leather goods.....	9	1,939	4,465	1,850	3,421	3,982	6,619	24	2,048	7,686
33	Primary metal industries.....	8	5,834	23,064	4,785	7,841	16,845	28,349	1,942	7,608	31,483
34	Fabricated metal products.....	12	1,054	4,392	860	1,640	3,335	6,884	303	1,391	5,142
37	Transportation equipment.....	5	2,206	9,559	1,832	3,937	7,523	19,432	...	222	(D)
DELAWARE COUNTY											
	All industries, total <sup>1</sup> .....	393	52,883	256,548	39,067	78,735	173,805	428,141	43,863	<sup>2</sup> 48,358	<sup>2</sup> 266,657
20	Food and kindred products.....	40	1,236	4,088	816	1,698	2,182	6,278	348	956	4,617
22	Textile mill products.....	21	3,638	13,476	3,139	6,055	10,432	24,165	1,601	5,419	30,342
23	Apparel and related products..	17	1,201	3,493	959	1,620	2,094	7,027	46	345	2,356
24	Lumber and wood products.....	21	536	2,161	436	905	1,508	2,647	132	309	1,352
25	Furniture and fixtures.....	9	154	513	124	248	364	1,036	47	(D)	(D)
27	Printing and publishing.....	49	1,595	8,178	1,370	2,644	6,750	9,281	1,045	510	2,562
28	Chemicals and products.....	23	2,655	11,747	1,682	3,448	6,714	18,588	1,355	4,205	14,327
31	Leather and leather goods.....	3	130	285	115	207	222	543	...	112	658
32	Stone, clay, & glass products..	19	330	1,134	270	518	820	1,771	173	472	3,678
33	Primary metal industries.....	16	2,669	12,168	2,118	4,028	8,485	17,455	610	3,290	14,162
34	Fabricated metal products.....	46	2,632	10,384	2,321	4,587	8,186	17,756	624	1,457	6,867
35	Machinery, except electrical..	46	10,404	56,202	7,547	15,757	39,183	87,291	8,055	6,403	29,416
36	Electrical machinery.....	19	1,330	5,217	1,029	2,086	3,418	8,003	470	592	(D)
37	Transportation equipment.....	14	14,847	76,063	10,030	20,831	47,321	116,648	1,525	15,442	86,890
38	Instruments & related products	8	235	902	153	340	489	1,139	60	723	(D)
39	Miscellaneous manufactures <sup>3</sup> ...	24	768	3,714	660	1,339	2,799	5,988	119	540	(D)
Erie County is coextensive with the Erie Standard Metropolitan Area. Data for this Area are shown in Table 5.											
LACKAWANNA COUNTY											
	All industries, total <sup>1</sup> .....	481	31,478	94,351	26,936	50,739	73,219	164,764	12,896	<sup>2</sup> 24,999	<sup>2</sup> 83,960
20	Food and kindred products.....	84	1,834	6,211	1,151	2,282	3,624	10,193	366	1,978	9,011
21	Tobacco manufactures.....	4	1,391	3,515	1,223	2,244	3,067	5,722	58	974	2,678
22	Textile mill products.....	29	4,283	11,469	3,848	7,347	9,743	16,344	360	4,933	15,842
23	Apparel and related products..	146	10,077	20,469	9,458	16,388	17,484	31,976	424	8,307	21,251
25	Furniture and fixtures.....	14	875	3,241	719	1,448	2,432	5,050	63	189	461
26	Pulp, paper and products.....	7	350	1,471	292	661	1,036	4,035	352	(D)	(D)
27	Printing and publishing.....	44	1,909	8,231	1,477	2,837	6,113	11,993	1,057	1,892	7,468
28	Chemicals and products.....	12	234	988	162	316	564	2,237	22	267	1,976
31	Leather and leather goods.....	5	853	1,953	792	1,379	1,678	3,271	62	511	1,524
32	Stone, clay, & glass products..	16	322	1,123	275	574	927	2,167	89	167	570
34	Fabricated metal products.....	29	1,541	6,215	1,235	2,449	4,510	11,446	444	2,133	8,546
35	Machinery, except electrical..	19	806	2,872	679	1,294	2,302	4,044	49	1,247	7,187
36	Electrical machinery.....	10	1,644	5,627	1,345	2,675	4,373	4,749	1,339	790	(D)
39	Miscellaneous manufactures <sup>3</sup> ...	29	3,911	15,058	3,231	6,486	10,798	40,403	7,942	1,217	3,537
Lancaster County is coextensive with the Lancaster Standard Metropolitan Area. Data for this area are shown in Table 5.											
LEHIGH COUNTY											
	All industries, total <sup>1</sup> .....	479	33,457	116,250	27,392	52,983	84,042	209,872	7,890	<sup>2</sup> 35,720	<sup>2</sup> 148,372
20	Food and kindred products.....	66	2,136	7,876	1,312	2,770	4,387	12,992	438	2,341	10,545
22	Textile mill products.....	72	4,483	13,605	4,070	7,663	11,346	20,113	482	7,322	27,472
23	Apparel and related products..	102	8,711	21,650	8,015	13,625	17,707	28,924	433	7,368	21,491
24	Lumber and wood products.....	12	183	585	166	292	503	1,398	27	265	767
25	Furniture and fixtures.....	21	455	1,451	389	779	1,115	2,144	22	472	(D)
26	Pulp, paper and products.....	4	152	334	137	259	260	544	...	(D)	(D)
27	Printing and publishing.....	38	921	3,340	511	2,662	1,784	6,114	40	786	2,933
28	Chemicals and products.....	16	710	2,721	540	1,121	1,979	6,585	408	530	(D)
31	Leather and leather goods.....	5	761	1,992	713	1,401	1,798	2,683	36	730	1,415
32	Stone, clay, & glass products..	33	1,536	6,116	1,283	2,523	4,630	14,340	1,995	1,479	(D)
33	Primary metal industries.....	8	621	2,260	553	1,062	1,962	3,439	75	676	2,610
34	Fabricated metal products.....	33	2,865	11,789	2,246	4,278	8,038	21,119	451	2,807	14,019
35	Machinery, except electrical..	37	2,344	10,717	1,483	3,200	6,055	17,329	715	1,788	7,138
36	Electrical machinery.....	11	4,881	19,705	3,689	7,089	13,113	44,936	2,556	2,109	8,587

See footnotes at end of table.



Table 6.--GENERAL STATISTICS FOR PRINCIPAL INDUSTRIAL COUNTIES, BY MAJOR INDUSTRY GROUP: 1954 AND 1947--Continued  
(Principal industrial counties include all counties with 20,000 or more manufacturing employees. For explanation of column captions see Introduction)

Code	Major industry group	1954								1947	
		Establish- ments. number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
		LUZERNE COUNTY									
	All industries, total <sup>1</sup> .....	632	36,902	97,448	32,866	59,382	79,839	156,328	5,273	<sup>2</sup> 35,676	<sup>2</sup> 126,165
20	Food and kindred products.....	124	3,038	10,060	2,011	3,838	5,808	19,921	889	4,088	19,598
21	Tobacco manufactures.....	9	3,639	8,479	3,490	6,241	8,070	18,112	323	3,823	14,267
22	Textile mill products.....	39	4,826	13,263	4,410	8,377	11,612	18,365	986	8,289	32,872
23	Apparel and related products..	197	15,068	31,707	14,202	24,266	28,063	41,145	469	11,571	26,321
24	Lumber and wood products.....	38	148	315	129	247	282	603	60	450	1,512
25	Furniture and fixtures.....	16	718	1,968	633	1,197	1,584	3,459	110	350	1,044
27	Printing and publishing.....	48	1,086	4,756	833	1,760	3,540	6,722	209	990	5,132
28	Chemicals and products.....	14	393	1,595	300	609	1,113	3,334	115	352	1,930
31	Leather and leather goods.....	14	2,021	4,791	1,898	3,403	4,077	6,729	372	619	1,632
32	Stone, clay, & glass prod.....	19	235	769	193	413	589	1,269	186	141	594
33	Primary metal industries.....	10	996	3,794	820	1,532	3,000	6,060	415	1,661	(b)
34	Fabricated metal products.....	19	1,034	3,679	826	1,598	2,780	8,655	216	561	2,075
35	Machinery, except electrical..	41	1,874	7,061	1,452	2,924	4,914	12,349	532	2,044	8,618
37	Transportation equipment.....	8	471	1,746	428	877	1,602	3,958	87	14	50
39	Miscellaneous manufactures <sup>3</sup> ...	23	1,053	2,748	961	1,916	2,225	4,481	267	68	191
		MERCER COUNTY									
	All industries, total <sup>1</sup> .....	145	19,391	88,613	15,257	28,022	64,742	187,613	7,006	<sup>2</sup> 20,986	<sup>2</sup> 123,527
20	Food and kindred products.....	37	392	1,445	234	502	781	2,342	195	316	1,485
23	Apparel and related products..	5	192	358	167	324	334	516	13	(D)	(D)
27	Printing and publishing.....	11	222	1,029	130	281	583	1,569	73	210	1,107
32	Stone, clay, & glass prod.....	11	126	464	101	197	342	1,241	133	21	(D)
33	Primary metal industries.....	16	6,726	30,402	5,916	10,780	25,390	42,114	3,381	8,349	43,228
34	Fabricated metal products.....	14	1,401	7,020	1,171	2,398	5,560	15,953	534	1,100	9,305
39	Miscellaneous manufactures <sup>3</sup> ...	8	122	309	109	192	232	604	...	22	67
		MONTGOMERY COUNTY									
	All industries, total <sup>1</sup> .....	831	60,002	247,459	47,575	94,360	176,123	435,511	39,613	<sup>2</sup> 57,121	<sup>2</sup> 284,145
20	Food and kindred products.....	99	2,752	10,891	1,449	2,903	4,470	17,006	1,108	2,333	10,857
22	Textile mill products.....	98	6,741	22,285	5,871	11,155	17,206	29,887	1,311	8,724	42,319
23	Apparel and related products..	70	5,184	13,087	4,834	8,429	11,255	17,861	211	4,634	14,494
24	Lumber and wood products.....	23	379	1,549	302	642	1,089	1,749	224	303	1,091
25	Furniture and fixtures.....	24	770	2,475	679	1,379	1,991	4,524	98	685	2,332
26	Pulp, paper and products.....	17	1,968	8,575	1,657	3,765	6,770	14,999	974	1,436	8,946
27	Printing and publishing.....	61	1,004	3,881	549	1,092	2,108	6,868	230	596	2,787
28	Chemicals and products.....	31	2,087	9,266	918	1,881	3,507	21,648	1,680	783	6,508
29	Petroleum and coal products...	4	679	4,023	425	865	1,821	8,936	114	(D)	(D)
30	Rubber products.....	8	4,571	22,601	3,939	7,923	18,922	65,611	9,255	5,393	39,550
31	Leather and leather goods.....	9	413	1,014	362	716	804	1,458	21	588	1,983
32	Stone, clay, & glass prod.....	55	4,231	19,466	3,349	7,019	13,216	40,395	2,769	4,255	22,692
33	Primary metal industries.....	30	6,357	30,909	5,433	10,957	24,094	48,277	11,946	6,705	32,389
34	Fabricated metal products.....	88	7,454	33,211	5,775	11,627	23,552	52,483	3,049	6,772	32,549
35	Machinery, except electrical..	114	5,525	24,063	4,147	8,312	15,962	39,382	1,657	4,760	22,904
36	Electrical machinery.....	25	4,030	15,560	3,434	6,716	12,593	24,251	3,601	1,188	(D)
37	Transportation equipment.....	14	1,617	7,486	1,265	2,496	5,367	12,041	460	5,330	23,623
38	Instruments & related products	15	1,237	5,791	746	1,525	2,885	8,515	141	107	323
39	Miscellaneous manufactures <sup>3</sup> ...	46	2,996	11,323	2,434	4,951	8,502	19,613	755	2,071	11,215
		NORTHAMPTON COUNTY									
	All industries, total <sup>1</sup> .....	410	46,756	168,784	38,874	71,262	127,698	312,557	33,053	<sup>2</sup> 43,764	<sup>2</sup> 170,846
20	Food and kindred products.....	57	1,395	4,675	1,013	2,004	2,922	7,655	338	908	3,247
22	Textile mill products.....	29	3,255	10,092	2,883	5,310	7,879	17,483	923	4,842	19,825
23	Apparel and related products..	129	9,237	20,572	8,729	15,475	18,493	28,911	620	8,207	19,253
26	Pulp, paper and products.....	11	1,959	8,457	1,343	3,088	5,089	12,239	3,648	1,528	(D)
27	Printing and publishing.....	36	1,250	5,300	857	1,587	3,479	8,097	316	533	2,898
28	Chemicals and products.....	8	627	2,600	428	872	1,563	6,239	225	920	4,722
31	Leather and leather goods.....	3	318	813	307	523	721	1,215	...	(D)	(D)
32	Stone, clay, & glass prod.....	46	4,334	17,101	3,864	7,864	14,433	48,634	2,519	3,230	21,536
34	Fabricated metal products.....	24	2,021	8,389	1,660	3,169	6,316	17,060	303	1,804	8,696
36	Electrical machinery.....	9	969	3,181	847	1,656	2,517	6,522	82	774	(D)

See footnotes at end of table.



## MANUFACTURES—AREA STATISTICS

Table 6.—GENERAL STATISTICS FOR PRINCIPAL INDUSTRIAL COUNTIES, BY MAJOR INDUSTRY GROUP: 1954 AND 1947—Continued

(Principal industrial counties include all counties with 20,000 or more manufacturing employees. For explanation of column captions see Introduction)

Code	Major industry group	1954								1947	
		Establishments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
		PHILADELPHIA COUNTY									
	All industries, total <sup>1</sup> ....	5,214	309,792	1,251,161	235,174	457,212	833,224	2,215,118	112,489	<sup>2</sup> 328,325	<sup>2</sup> 1,730,141
20	Food and kindred products.....	441	36,475	146,186	24,364	48,848	84,454	298,623	14,601	33,008	181,593
22	Textile mill products.....	398	27,762	96,239	24,688	46,698	74,720	145,161	5,751	40,776	197,922
23	Apparel and related products..	909	42,185	121,398	38,127	68,643	98,019	189,825	1,928	44,413	190,912
25	Furniture and fixtures.....	249	5,433	19,973	4,593	8,716	15,085	29,505	807	4,726	21,280
26	Pulp, paper and products.....	171	9,248	36,978	7,584	15,354	25,877	66,733	3,175	10,810	61,284
27	Printing and publishing.....	674	30,196	142,665	19,293	37,593	86,456	265,118	8,461	30,023	192,072
28	Chemicals and products.....	276	16,109	75,689	9,518	18,701	36,383	193,863	11,083	15,511	143,238
29	Petroleum and coal products...	21	7,163	36,155	5,869	11,699	27,572	73,973	30,241	7,388	67,969
30	Rubber products.....	30	2,609	10,634	2,016	3,877	7,349	19,663	633	2,673	11,009
31	Leather and leather goods.....	110	6,133	20,158	5,436	10,186	16,162	29,563	540	8,383	38,806
32	Stone, clay, & glass products.	93	3,284	14,860	2,506	4,926	9,755	26,899	784	3,560	18,320
33	Primary metal industries.....	83	6,908	31,563	6,037	11,684	24,055	51,300	1,968	7,434	32,020
34	Fabricated metal products.....	573	28,679	125,665	23,087	46,935	92,425	196,535	5,225	32,341	153,771
35	Machinery, except electrical..	491	26,280	120,631	18,832	37,978	75,827	190,690	7,268	31,229	149,765
36	Electrical machinery.....	103	27,706	119,907	17,053	34,008	69,060	230,574	5,908	21,562	137,345
37	Transportation equipment.....	39	8,571	43,721	6,774	13,825	32,232	61,360	9,910	8,439	23,673
38	Instruments & related products	103	9,516	41,045	5,813	11,163	21,639	61,960	1,819	7,556	34,591
39	Miscellaneous manufactures <sup>3</sup> ...	348	8,616	28,297	7,276	14,191	20,112	47,497	1,804	8,835	39,588
		WASHINGTON COUNTY									
	All industries, total <sup>1</sup> ....	165	21,687	93,080	18,516	35,762	74,972	156,954	9,107	<sup>2</sup> 21,727	<sup>2</sup> 97,876
20	Food and kindred products.....	48	837	3,081	528	1,025	1,665	5,068	358	544	2,451
24	Lumber and wood products.....	13	121	392	108	225	340	528	30	190	(D)
27	Printing and publishing.....	15	294	1,106	167	331	613	1,597	51	233	1,107
28	Chemicals and products.....	6	472	2,286	328	673	1,440	4,185	1,022	365	(D)
32	Stone, clay, & glass products.	26	5,819	20,556	5,334	9,861	18,194	29,706	981	6,634	24,710
33	Primary metal industries.....	9	8,843	44,829	7,669	15,096	37,334	71,905	5,054	10,929	49,415
34	Fabricated metal products.....	14	1,048	4,451	841	1,679	3,214	6,831	436	1,334	5,802
35	Machinery, except electrical..	17	488	2,218	400	789	1,561	3,403	130	405	1,890
36	Electrical machinery.....	4	3,207	12,259	2,675	5,173	9,111	30,116	816	(D)	(D)
		WESTMORELAND COUNTY									
	All industries, total <sup>1</sup> ....	342	39,818	171,704	31,924	60,213	128,790	275,530	21,366	<sup>2</sup> 49,313	<sup>2</sup> 234,027
20	Food and kindred products.....	71	1,154	4,430	818	1,410	2,555	11,534	503	1,275	6,714
24	Lumber and wood products.....	25	169	633	129	251	390	1,293	63	217	(D)
27	Printing and publishing.....	37	1,083	4,345	673	1,377	2,757	6,393	264	923	3,704
28	Chemicals and products.....	5	197	723	139	265	427	1,733	126	232	(D)
29	Petroleum and coal products...	14	337	1,398	293	542	1,142	5,013	40	824	6,740
30	Rubber products.....	5	1,062	4,365	831	1,729	3,155	6,214	291	(D)	(D)
32	Stone, clay, & glass products.	41	4,876	19,125	4,186	8,023	15,548	29,182	1,154	7,722	35,738
33	Primary metal industries.....	39	17,116	80,089	14,274	27,017	62,934	119,020	13,393	19,573	92,047
34	Fabricated metal products.....	30	4,275	17,966	3,307	6,138	12,893	25,853	1,536	6,784	27,947
35	Machinery, except electrical..	34	4,832	18,908	3,501	6,038	12,368	32,674	2,197	4,833	20,887
York County is coextensive with the York Standard Metropolitan Area. Data for this area are shown in Table 5.											

D Withheld to avoid disclosing data for individual companies.

<sup>1</sup>In order to avoid disclosing data for individual companies, the statistics for some industry groups reporting less than 100 employees are also omitted. They are included, however, in the "All industries" line.<sup>2</sup>The 1954 and 1947 "All industries" totals are not strictly comparable because of differences in coverage of loggers and fluid milk distributors. See discussion in Introduction and footnote to Table 4 for comparable figures at the State level.<sup>3</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)

Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954

20 Food and kindred products	26 Pulp, paper and products	32 Stone, clay, and glass products	38 Instruments and related products
21 Tobacco manufactures	27 Printing and publishing	33 Primary metal industries	39 Miscellaneous manufactures (includes Group 19)
22 Textile mill products	28 Chemicals and products	34 Fabricated metal products	Ordnance and accessories)
23 Apparel and related products	29 Petroleum and coal products	35 Machinery, except electrical	
24 Lumber and wood products	30 Rubber products	36 Electrical machinery	
25 Furniture and fixtures	31 Leather and leather goods	37 Transportation equipment	

(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Pennsylvania, total.....	18,795	2,954	129	1,217	2,308	1,558	626	417	1,941	713	148	89	300	955	608	1,555	1,654	362	190	207	864
1 to 4 employees.....	5,889	1,064	31	169	355	971	196	51	879	231	30	19	41	299	84	435	541	56	41	63	333
5 to 9 employees.....	2,686	508	19	106	185	278	104	41	355	116	30	19	27	125	58	229	250	44	22	35	135
10 to 19 employees.....	2,588	481	16	167	246	146	91	51	256	103	33	9	31	150	64	248	276	44	28	34	114
20 to 49 employees.....	3,131	459	19	270	600	109	115	108	254	109	14	15	42	156	95	291	250	52	28	20	125
50 to 99 employees.....	1,914	210	6	235	469	38	56	58	88	75	5	7	58	81	79	160	134	38	21	24	72
100 to 249 employees.....	1,545	159	16	194	342	15	53	74	67	47	14	4	68	71	93	107	99	50	16	15	41
250 to 499 employees.....	567	36	12	56	83	1	8	19	30	14	14	7	28	53	47	40	53	35	6	3	22
500 to 999 employees.....	278	27	8	14	25	...	2	12	4	7	3	6	5	13	39	32	30	18	8	6	19
1,000 to 2,499 employees.....	137	9	2	4	3	...	1	3	6	11	2	3	...	6	29	11	15	15	12	4	1
2,500 employees and over.....	60	1	...	2	...	...	...	...	2	...	3	...	...	1	20	2	6	10	8	3	2
Adams:																					
1 to 19 employees.....	61	16	1	2	2	16	2	1	4	1	...	...	2	4	1	1	3	1	1	...	3
20 to 99 employees.....	27	2	2	1	10	3	1	1	1	...	...	1	1	3	...	...	1	...	...	...	...
100 employees and over.....	18	5	...	...	1	...	3	1	...	...	...	1	4	...	1	...	...	2	...	...	...
Allegheny:																					
1 to 19 employees.....	1,058	168	4	1	47	25	39	11	221	53	10	2	5	78	28	133	123	15	8	15	72
20 to 99 employees.....	369	54	...	...	15	8	18	6	50	24	1	1	3	24	19	67	43	7	1	9	19
100 employees and over.....	253	48	...	1	3	...	6	9	10	11	6	...	...	13	53	31	27	14	8	4	9
Armstrong:																					
1 to 19 employees.....	74	14	...	2	...	35	...	...	6	2	2	...	1	5	...	3	2	...	1	...	1
20 to 99 employees.....	18	4	...	1	...	...	...	...	2	...	...	...	...	9	1	1	...	...	...	...	...
100 employees and over.....	8	1	...	...	...	...	...	...	1	...	...	...	...	5	...	...	1	...	...	...	...
Beaver:																					
1 to 19 employees.....	90	32	...	...	1	2	3	...	7	7	1	1	...	12	3	8	8	1	1	...	3
20 to 99 employees.....	55	9	...	...	1	3	1	1	3	4	...	...	...	13	9	5	3	...	2	...	1
100 employees and over.....	49	1	...	...	...	...	...	3	1	1	3	...	...	6	18	7	5	2	...	...	2
Bedford:																					
1 to 19 employees.....	50	9	...	1	1	34	...	...	2	1	...	...	...	2	...	...	...	...	...	...	...
20 to 99 employees.....	8	1	...	...	1	4	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...
100 employees and over.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Berks:																					
1 to 19 employees.....	352	87	3	55	12	19	7	5	36	16	2	...	2	9	15	23	37	2	5	1	16
20 to 99 employees.....	217	26	...	68	28	5	5	15	5	5	...	...	5	4	10	16	12	4	2	...	7
100 employees and over.....	100	9	1	28	12	...	...	3	1	2	...	...	6	1	13	4	7	5	3	2	3
Blair:																					
1 to 19 employees.....	86	36	...	...	1	11	2	...	13	6	1	...	...	10	...	...	2	...	...	1	3
20 to 99 employees.....	25	14	...	...	1	...	1	...	3	1	...	...	...	1	...	1	2	...	...	...	1
100 employees and over.....	26	3	...	2	2	...	...	8	1	...	...	...	4	2	...	2	1	1	...	...	...
Bradford:																					
1 to 19 employees.....	35	5	...	...	2	17	...	...	5	...	...	...	1	...	...	...	3	...	...	...	2
20 to 99 employees.....	18	4	...	1	1	2	...	1	3	...	...	...	...	...	2	...	1	...	1	...	2
100 employees and over.....	8	...	...	2	...	...	...	1	1	1	...	...	...	...	1	...	1	...	...	...	1
Bucks:																					
1 to 19 employees.....	261	35	1	49	6	10	12	3	23	7	1	2	1	22	5	24	36	4	5	4	11
20 to 99 employees.....	129	17	1	29	18	5	4	4	3	7	...	3	1	9	4	7	6	3	2	1	5
100 employees and over.....	47	1	...	5	9	...	1	8	1	3	1	1	...	1	4	3	2	2	2	1	2
Butler:																					
1 to 19 employees.....	88	16	...	...	1	23	2	...	4	2	...	...	...	11	6	8	13	...	...	...	2
20 to 99 employees.....	30	5	...	1	...	...	2	...	2	4	2	...	...	4	1	3	5	...	...	...	1
100 employees and over.....	19	...	...	...	1	...	...	...	2	2	1	...	...	6	2	1	1	1	...	...	1
Cambria:																					
1 to 19 employees.....	118	26	...	...	1	37	7	1	13	4	3	...	...	8	1	4	5	2	2	...	4
20 to 99 employees.....	43	17	1	...	5	1	2	1	3	...	...	...	...	5	1	2	2	...	2	...	1
100 employees and over.....	19	2	...	...	7	...	1	...	1	...	1	...	...	1	3	1	1	...	1	...	...
Cameron:																					
1 to 19 employees.....	7	3	...	1	...	1	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	3	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1	1	...	...	...
Carbon:																					
1 to 19 employees.....	54	16	...	9	1	9	2	...	6	3	...	...	...	4	...	...	...	...	1	...	3
20 to 99 employees.....	39	2	...	8	20	...	1	...	1	...	...	...	2	1	2	1	1	...	...	...	...
100 employees and over.....	15	...	...	3	6	...	...	...	...	1	...	...	...	...	4	...	...	1	...	...	...
Centre:																					
1 to 19 employees.....	62	13	...	...	...	22	...	...	11	1	1	...	...	4	2	...	2	...	...	3	3
20 to 99 employees.....	16	3	...	1	2	2	...	...	1	...	...	...	...	3	...	...	2	2	...	...	...
100 employees and over.....	9	1	1	1	1	...	...	...	...	...	...	...	...	4	1	...	...	...	...	...	...
Chester:																					
1 to 19 employees.....	171	27	...	10	10	18	2	6	23	8	2	2	...	9	5	19	21	3	1	...	5
20 to 99 employees.....	76	17	...	11	7	1	1	6	5	4	...	...	...	3	4	3	7	2	2	...	3
100 employees and over.....	42	6	...	4	1	...	1	7	1	3	...	1	...	3	3	5	2	1	2	...	2
Clarion:																					
1 to 19 employees.....	59	14	...	...	2	28	...	...	6	...	...	...	...	2	...	3	4	...	...	...	...
20 to 99 employees.....	18	3	...	...	...	1	3	2	2	...	...	...	...	5	...	1	...	...	...	...	1
100 employees and over.....	3	...	...	...	...	...	...	...	...	...	...	1	...	2	...	...	...	...	...	...	...
Clearfield:																					
1 to 19 employees.....	97	16	...	...	1	60	...	...	6	1	...	...	...	5	...	...	3	1	...	...	4
20 to 99 employees.....	33	7	...	3	7	1	...	...	3	...	...	...	1	7	1	1	2	...	...	...	...
100 employees and over.....	16	1	...	...	3	...	...	1	...	...	...	1	1	6	...	...	...	2	...	1	...
Clinton:																					
1 to 19 employees.....	40	15	...	...	2	11	1	...	3	4	1	...	...	1	...						

## MANUFACTURES—AREA STATISTICS

Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954—Continued  
(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Columbia:																					
1 to 19 employees.....	67	23	...	4	6	15	1	1	5	3	...	...	...	2	...	4	3	...	...	...	...
20 to 99 employees.....	36	5	...	10	13	2	...	...	2	...	...	...	1	1	...	1	...	...	...	...	1
100 employees and over.....	12	1	...	4	4	...	...	...	1	...	...	...	...	...	...	1	...	...	...	...	1
Crawford:																					
1 to 19 employees.....	98	24	...	2	1	33	2	...	6	2	...	1	1	3	1	3	16	...	1	...	2
20 to 99 employees.....	24	6	...	...	...	1	1	...	3	...	...	...	...	1	3	4	...	1	1	3	3
100 employees and over.....	14	1	...	...	...	1	...	...	1	...	...	1	...	4	2	2	...	...	...	...	2
Cumberland:																					
1 to 19 employees.....	79	18	1	2	1	8	4	1	11	2	...	...	2	12	1	5	4	4	...	...	3
20 to 99 employees.....	34	12	...	3	7	1	...	2	3	1	...	...	...	...	2	...	2	...	...	...	1
100 employees and over.....	22	1	...	2	3	...	1	3	...	...	...	1	2	...	2	2	1	4	...	...	...
Dauphin:																					
1 to 19 employees.....	160	57	...	...	3	11	5	1	31	11	2	...	1	6	4	6	7	2	2	3	8
20 to 99 employees.....	68	24	...	1	13	1	3	2	1	1	1	...	3	5	...	4	8	...	1	...	...
100 employees and over.....	45	7	1	1	14	...	...	...	4	...	1	...	5	...	4	2	3	1	2	...	...
Delaware:																					
1 to 19 employees.....	240	25	...	5	7	14	6	4	45	12	1	2	1	11	6	25	35	11	6	6	18
20 to 99 employees.....	92	11	...	5	8	6	3	3	1	5	...	2	2	8	4	16	7	3	2	2	4
100 employees and over.....	61	4	...	11	2	1	...	4	3	6	2	...	...	...	6	5	4	5	6	...	2
Elk:																					
1 to 19 employees.....	37	11	...	...	...	10	...	...	5	2	...	...	...	2	1	2	3	1	...	...	...
20 to 99 employees.....	10	1	...	...	...	2	...	...	...	...	...	...	1	2	2	...	1	1	...	...	...
100 employees and over.....	16	...	...	...	...	1	...	2	...	1	...	...	1	1	...	1	1	8	...	...	...
Erie:																					
1 to 19 employees.....	237	49	1	...	6	23	5	5	31	6	1	1	...	6	5	27	54	3	2	1	11
20 to 99 employees.....	111	16	...	...	1	4	4	...	7	1	...	...	2	3	12	15	21	5	4	2	14
100 employees and over.....	74	6	...	...	1	1	6	4	3	...	2	2	...	...	11	10	14	5	3	2	4
Fayette:																					
1 to 19 employees.....	124	27	1	...	2	36	2	...	9	4	15	1	...	10	4	5	4	...	...	...	4
20 to 99 employees.....	33	9	...	...	...	11	...	...	2	1	2	...	...	3	...	1	3	...	...	...	1
100 employees and over.....	15	1	...	1	4	...	...	...	1	2	...	...	...	2	...	2	...	...	1	1	...
Forest:																					
1 to 19 employees.....	11	1	...	...	...	5	...	...	1	...	...	...	2	...	1	1	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Franklin:																					
1 to 19 employees.....	80	17	...	...	1	21	3	...	8	1	...	...	1	8	1	5	11	1	1	...	1
20 to 99 employees.....	31	9	...	2	5	1	2	1	3	...	...	...	...	1	1	...	4	...	2	...	...
100 employees and over.....	15	3	...	1	3	...	...	...	...	...	...	...	2	...	...	...	6	...	...	...	...
Fulton:																					
1 to 19 employees.....	22	3	...	...	...	15	...	...	2	...	...	...	...	2	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Greene:																					
1 to 19 employees.....	22	3	...	...	...	10	...	...	3	...	...	...	...	4	...	1	1	...	...	...	...
20 to 99 employees.....	7	3	...	...	1	1	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Huntingdon:																					
1 to 19 employees.....	52	7	...	...	1	33	...	...	3	...	...	...	1	3	...	4	...	...	...	...	...
20 to 99 employees.....	14	5	...	...	1	...	...	...	4	...	...	...	...	2	...	1	...	...	...	...	1
100 employees and over.....	6	...	...	...	2	...	...	1	...	...	...	...	...	3	...	...	...	...	...	...	...
Indiana:																					
1 to 19 employees.....	62	9	...	...	...	34	...	...	6	...	2	1	...	5	1	1	1	1	...	...	1
20 to 99 employees.....	12	2	...	...	3	...	...	...	2	...	2	...	1	1	...	1	...	...	...	...	...
100 employees and over.....	8	...	...	...	1	...	...	...	...	...	...	1	1	1	...	...	2	...	...	...	2
Jefferson:																					
1 to 19 employees.....	73	14	...	...	1	33	1	...	7	2	1	...	...	2	3	3	4	...	1	...	1
20 to 99 employees.....	16	2	...	1	3	...	...	...	2	1	...	...	...	1	...	3	2	...	...	...	1
100 employees and over.....	10	1	...	...	1	...	...	...	...	...	...	...	...	5	...	...	...	3	...	...	...
Juniata:																					
1 to 19 employees.....	35	10	...	...	1	19	...	...	2	...	...	...	...	1	...	2	...	...	...	...	...
20 to 99 employees.....	8	2	...	...	3	1	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Lackawanna:																					
1 to 19 employees.....	250	63	...	3	33	18	8	2	37	8	...	1	...	13	7	18	12	4	3	2	18
20 to 99 employees.....	150	16	1	14	83	1	3	4	3	4	...	...	1	2	...	7	4	2	...	...	5
100 employees and over.....	81	5	3	12	30	...	3	1	4	...	...	...	4	1	...	4	3	4	...	1	6
Lancaster:																					
1 to 19 employees.....	349	105	6	15	7	19	14	2	32	15	3	1	1	18	17	26	47	2	3	4	12
20 to 99 employees.....	172	27	4	12	34	5	2	8	9	1	...	1	6	7	11	14	13	5	3	1	9
100 employees and over.....	91	9	3	10	16	...	...	1	6	1	...	...	14	1	3	10	8	4	1	1	3
Lawrence:																					
1 to 19 employees.....	84	35	...	...	1	5	2	1	9	2	2	...	...	7	...	7	6	1	...	1	5
20 to 99 employees.....	35	4	...	...	1	1	...	...	2	2	...	...	...	8	4	8	4	...	...	...	1
100 employees and over.....	23	...	...	1	...	...	...	...	...	1	...	...	1	7	2	4	5	...	1	...	1
Lebanon:																					
1 to 19 employees.....	92	34	1	2	7	11	1	1	8	5	...	...	1	5	5	2	6	...	...	...	3
20 to 99 employees.....	57	8	...	4	20	...	1	3	4	1	...	1	2	1	3	4	4	...	...	...	1
100 employees and over.....	33	3	...	6																	



Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954—Continued  
(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
McKean:																					
1 to 19 employees.....	85	14	...	...	...	27	3	...	13	8	2	...	1	2	1	4	2	1	...	1	6
20 to 99 employees.....	21	2	...	...	...	5	...	...	2	4	...	...	3	2	...	...	2	1	...	...	...
100 employees and over.....	20	...	...	...	...	1	3	1	...	...	2	...	1	5	...	1	2	3	...	...	1
Mercer:																					
1 to 19 employees.....	94	32	...	...	1	18	...	...	9	2	...	...	...	9	2	4	7	2	1	...	7
20 to 99 employees.....	36	5	...	...	4	2	...	1	1	1	...	...	...	2	7	7	3	1	...	1	1
100 employees and over.....	15	...	...	...	...	...	...	...	1	...	...	...	...	...	7	3	2	1	1	...	...
Mifflin:																					
1 to 19 employees.....	43	12	...	1	...	19	...	...	3	1	...	...	...	4	1	...	...	...	...	...	2
20 to 99 employees.....	15	7	...	2	2	...	...	...	1	...	...	...	...	1	1	1	...	...	...	...	...
100 employees and over.....	6	...	...	1	1	1	...	...	...	1	...	...	...	...	1	...	1	...	...	...	...
Monroe:																					
1 to 19 employees.....	68	10	...	12	4	12	1	...	10	1	...	...	...	4	2	3	4	...	1	2	2
20 to 99 employees.....	29	...	...	6	11	...	1	...	1	1	...	...	2	1	2	3	1	...	...	...	...
100 employees and over.....	9	...	...	1	1	...	...	1	1	...	...	...	...	...	...	1	2	1	...	...	1
Montgomery:																					
1 to 19 employees.....	460	69	...	41	21	18	15	5	48	19	2	3	4	28	7	49	73	13	6	9	30
20 to 99 employees.....	239	21	...	39	28	5	7	5	10	9	...	2	4	15	11	29	28	6	4	4	12
100 employees and over.....	132	9	...	18	21	...	2	7	3	3	2	3	1	12	12	10	13	6	4	2	4
Montour:																					
1 to 19 employees.....	11	4	...	...	...	3	...	...	1	...	1	...	1	...	1	...	...	...	...	...	...
20 to 99 employees.....	3	...	...	1	...	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...	...
100 employees and over.....	4	...	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	1	...	1
Northampton:																					
1 to 19 employees.....	170	36	...	8	21	7	5	5	28	2	2	...	...	17	1	14	11	3	...	2	8
20 to 99 employees.....	167	19	...	12	83	1	1	4	5	5	...	...	2	17	2	6	3	4	1	...	2
100 employees and over.....	73	2	...	9	25	...	...	2	3	1	1	...	1	12	4	4	3	2	...	...	4
Northumberland:																					
1 to 19 employees.....	91	37	...	3	3	15	...	...	9	4	...	1	...	6	1	4	5	...	...	...	3
20 to 99 employees.....	53	13	...	7	14	1	1	1	5	...	...	...	...	3	3	2	2	...	...	...	1
100 employees and over.....	28	3	1	4	13	1	1	...	...	1	...	...	1	...	1	...	...	1	1	...	...
Perry:																					
1 to 19 employees.....	41	11	...	2	1	18	...	...	6	...	...	...	...	...	...	2	1	...	...	...	...
20 to 99 employees.....	11	1	...	1	7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2
100 employees and over.....	2	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...
Philadelphia:																					
1 to 19 employees.....	3,170	264	11	157	471	63	177	71	492	172	9	18	63	66	44	373	322	50	24	69	254
20 to 99 employees.....	1,460	102	2	158	331	17	60	75	138	77	6	7	29	19	21	158	130	26	10	20	74
100 employees and over.....	584	75	8	83	107	1	12	25	44	27	6	5	18	8	18	42	39	27	5	14	20
Pike:																					
1 to 19 employees.....	18	2	...	1	1	10	...	...	1	1	...	...	...	1	...	...	1	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Potter:																					
1 to 19 employees.....	36	5	...	...	...	22	1	...	2	1	...	...	...	2	...	1	...	1	...	...	1
20 to 99 employees.....	7	1	...	1	...	1	...	...	...	1	...	...	1	...	...	...	...	...	...	1	1
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
Schuylkill:																					
1 to 19 employees.....	126	48	...	4	6	23	1	1	17	1	1	...	...	10	1	5	3	2	1	1	1
20 to 99 employees.....	99	11	...	20	44	1	1	3	3	...	1	...	3	4	...	2	3	...	...	...	3
100 employees and over.....	51	1	...	8	32	...	...	...	1	1	...	...	4	...	2	1	...	...	1	...	...
Snyder:																					
1 to 19 employees.....	44	10	...	1	1	19	2	...	4	1	...	...	...	3	...	...	3	...	...	...	...
20 to 99 employees.....	14	...	...	1	6	...	...	2	...	...	...	...	2	2	...	...	...	...	1	...	...
100 employees and over.....	6	...	...	4	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Somerset:																					
1 to 19 employees.....	112	20	1	...	1	64	...	...	6	1	...	...	...	11	1	3	2	...	...	...	2
20 to 99 employees.....	23	8	...	...	2	6	...	...	...	...	...	1	1	1	1	2	...	...	...	1	...
100 employees and over.....	5	...	...	...	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sullivan:																					
1 to 19 employees.....	16	1	...	1	...	13	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	3	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	3	1	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
Susquehanna:																					
1 to 19 employees.....	33	6	...	...	1	17	...	...	2	...	...	...	...	3	1	2	1	...	...	...	...
20 to 99 employees.....	14	3	...	1	4	3	...	...	1	...	...	...	...	...	...	...	2	...	...	...	...
100 employees and over.....	7	...	...	...	1	1	1	...	...	...	...	...	2	...	1	...	...	1	...	...	...
Tioga:																					
1 to 19 employees.....	30	7	...	...	1	11	1	...	6	1	...	...	...	...	...	1	...	...	...	...	2
20 to 99 employees.....	10	3	...	...	2	2	...	...	...	...	...	...	...	...	1	1	...	...	1	...	...
100 employees and over.....	5	...	...	...	...	...	...	...	...	...	...	...	2	1	...	...	2	...	...	...	...
Union:																					
1 to 19 employees.....	24	8	...	...	...	7	2	...	2	...	...	...	...	1	...	1	2	1	...	...	...
20 to 99 employees.....	9	2	...	2	2	...	...	...	1	...	...	...	...	1	...	...	...	1	...	...	...
100 employees and over.....	4	...	...	2	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Venango:																					
1 to 19 employees.....	77	12	...	...	...	40	1	...	3	2	2	...	...	1	1	1	8	...	4	...	2
20 to 99 employees.....	14	3	...	...	...	...	...	...	1	1	1	...	1	...	1	...	4	...	...	...	2
100 employees and over.....	16	...	...	...	...	1	...	...	2	...	4	...	...	1	2	2	4	...	...	...	...
Warren:																					
1 to 19 employees.....	59	7	...	...	1	25	...	...	5	3	2	...	...	2	1	2	7	1	3	...	...
20 to 99 employees.....	24	4	...	...	...	4	2	...	2	...	...	...	...	2	...	4	1	2	2	...	1
100 employees and over.....	13	...	...	...	...	3	...	...	...	1	...	...	...	...	1	2	3	3	...	...	...
Washington:																					

## MANUFACTURES—AREA STATISTICS

Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954—Continued  
 (Counties and size classes in which no manufacturing establishments were reported are omitted)

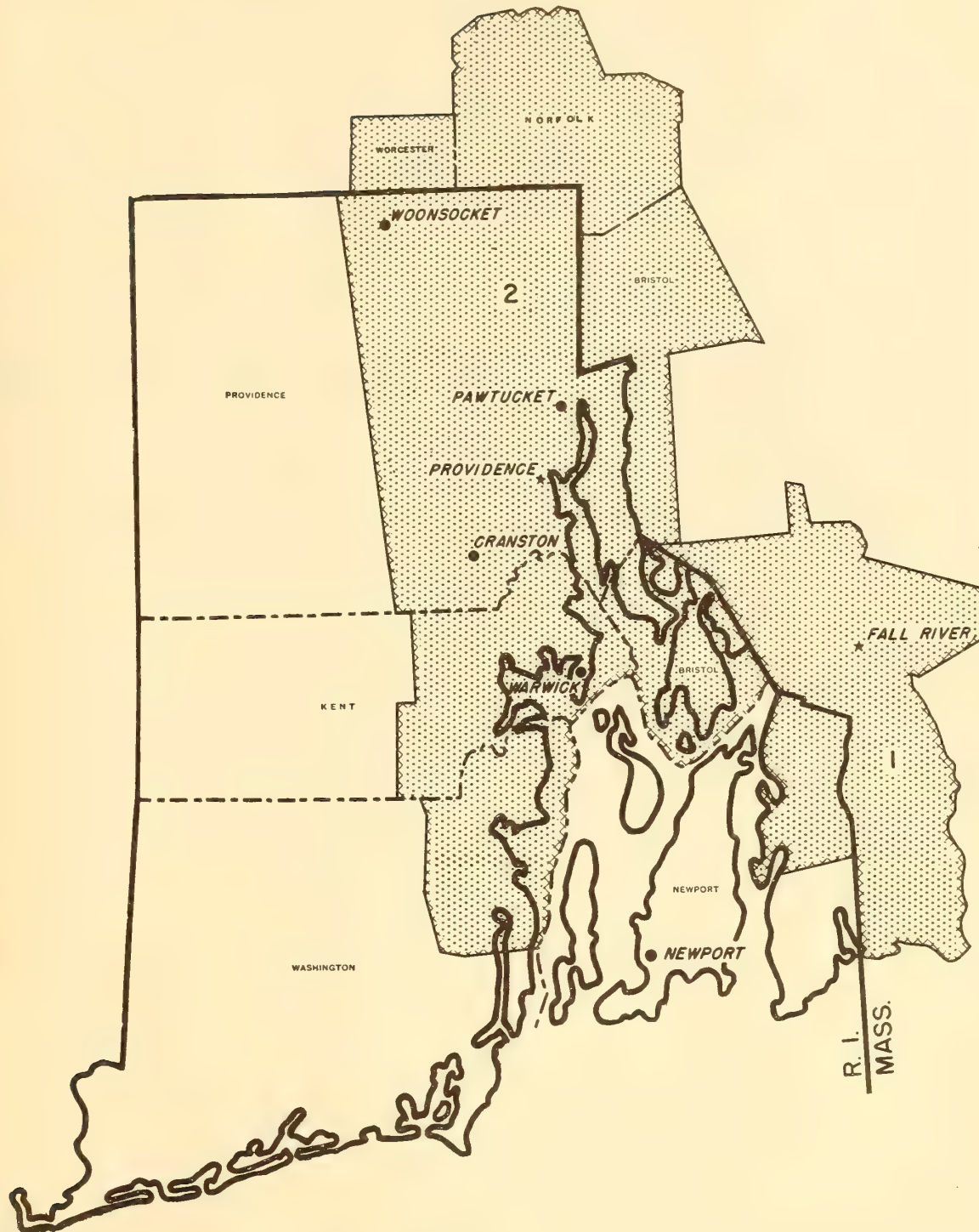
State, county, and size class	Establish- ments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Wayne:																					
1 to 19 employees.....	61	10	...	3	1	33	1	1	3	1	...	...	1	...	1	4	...	...	...	...	2
20 to 99 employees.....	14	...	...	5	3	3	...	...	...	...	...	...	1	...	...	1	1	...	...	...	...
100 employees and over.....	6	...	...	...	3	...	1	...	...	...	...	...	2	...	...	...	...	...	...	...	...
Westmoreland:																					
1 to 19 employees.....	216	57	...	...	6	24	3	1	29	3	12	2	...	24	8	13	25	1	...	...	8
20 to 99 employees.....	63	12	...	...	4	1	...	...	6	1	1	2	...	3	12	7	4	6	1	...	3
100 employees and over.....	63	2	...	1	3	...	...	...	2	1	1	1	...	14	19	10	5	2	...	1	1
Wyoming:																					
1 to 19 employees.....	23	4	...	1	1	13	...	...	2	1	...	...	...	...	...	1	...	...	...	...	...
20 to 99 employees.....	8	1	...	...	5	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
York:																					
1 to 19 employees.....	324	77	34	13	11	31	18	6	38	7	4	2	4	16	4	11	37	2	2	1	6
20 to 99 employees.....	195	37	12	9	33	3	17	8	10	6	2	...	6	7	10	13	14	3	1	...	4
100 employees and over.....	105	8	10	11	14	2	8	7	5	...	1	...	4	3	4	8	9	2	1	1	7







# RHODE ISLAND (5 COUNTIES)



## STANDARD METROPOLITAN AREAS

CODE

- 1 FALL RIVER, MASS.
- 2 PROVIDENCE

## LEGEND

- PLACES OF 25,000 TO 100,000
- ★ PLACES OF 100,000 AND OVER

STANDARD METROPOLITAN AREAS

## MANUFACTURES--AREA STATISTICS

Table 1.—MANUFACTURING EMPLOYMENT AT OPERATING ESTABLISHMENTS AND CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARIES FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS

(This table includes data for all manufacturing employees including those located in central administrative offices and auxiliaries. Tables 2-7 in this report include data for operating establishments only. For explanation of column captions see Introduction)

State, standard metropolitan area, and year <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	(Number)	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
Rhode Island:						
1954.....	125,041	431,889	123,970	425,365	1,071	6,524
1953 <sup>2</sup> .....	152,019	529,587	151,007	524,351	1,012	5,236
1952 <sup>2</sup> .....	131,698	446,880	130,485	442,472	<sup>3</sup> 1,213	<sup>3</sup> 4,408
1951 <sup>2</sup> .....	134,062	424,480	132,849	420,072	1,213	4,408
1950 <sup>2</sup> .....	135,473	390,904	134,043	386,468	1,430	4,436
1949 <sup>2</sup> .....	125,763	352,661	124,495	348,105	1,268	4,556
1954						
Standard metropolitan areas:						
Fall River <sup>4</sup> .....	27,005	74,066	26,990	73,942	15	124
Providence <sup>5</sup> .....	131,896	460,354	130,825	453,830	1,071	6,524

<sup>1</sup>Employment data for administrative offices and auxiliaries on a State basis are not available for the years prior to 1949. Similar data for standard metropolitan areas are available only for 1954.<sup>2</sup>The employment figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period. The employment figures for administrative and auxiliary units were compiled chiefly from Bureau of Old-Age and Survivors Insurance records and are not strictly comparable with the figures for these units that were collected by the Bureau of the Census for the year 1954.<sup>3</sup>The 1951 data are shown for 1952 since auxiliary and administrative unit data were not collected in 1952.<sup>4</sup>The Fall River Standard Metropolitan Area consists of Fall River City; Somerset, Swansea and Westport towns in Bristol County, Massachusetts; and Tiverton town in Newport County, Rhode Island. The Fall River Area was combined with the New Bedford Area in 1947.<sup>5</sup>The Providence Standard Metropolitan Area consists of Central Falls, Cranston, Pawtucket, Providence, and Woonsocket cities; Cumberland, East Providence, Johnston, Lincoln, North Providence, North Smithfield, and Smithfield towns in Providence County, Rhode Island; North Kingstown town in Washington County, Rhode Island; Warwick city; East Greenwich and West Warwick towns in Kent County, Rhode Island; Bristol County, Rhode Island; Attleboro city, North Attleborough and Seekonk towns in Bristol County, Massachusetts; Bellingham, Franklin, Plainville, and Wrentham towns in Norfolk County, Massachusetts; Blackstone and Millville towns in Worcester County, Massachusetts.



Table 2.—GENERAL STATISTICS FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Year	Establishments, number	All employees		Production workers		Value added by manufacture (\$1,000)		
		Number	Payroll (\$1,000)	Number	Wages (\$1,000)			
RHODE ISLAND								
1954 <sup>1</sup> .....	2,635	{	123,970	425,365	103,800	314,467	697,279	
1953 <sup>2</sup> .....			151,007	524,351	130,151	409,350	824,482	
1952 <sup>2</sup> .....			130,485	442,472	110,037	339,854	724,446	
1951 <sup>2</sup> .....			132,849	420,072	112,449	323,505	653,589	
1950 <sup>2</sup> .....			134,043	386,468	115,307	311,231	614,636	
1949 <sup>2</sup> .....	2,213	{	124,495	348,105	105,982	264,042	564,100	
1947.....			147,382	375,676	128,579	298,482	658,905	
1939.....			122,671	141,262	106,089	105,216	237,698	
1937.....			120,415	141,805	108,031	112,933	240,458	
1935.....			111,984	119,243	100,852	94,322	186,296	
1933.....	1,254	{	(NA)	(NA)	{	92,512	76,124	167,313
1931.....	1,473		(NA)	(NA)	{	95,435	96,036	211,322
1929.....	1,701		140,116	182,899	{	126,068	144,197	324,078
1927.....	1,497		(NA)	(NA)	{	120,009	138,896	279,126
1925.....	1,595		(NA)	(NA)	{	120,346	138,126	276,699
1923.....	1,691	{			{	134,667	152,500	316,844
1921.....	1,759					112,745	119,414	239,425
1919.....	2,367		153,499	168,068		139,316	137,105	330,590
1914.....	2,162		122,080	72,521		113,293	59,274	116,952
1909.....	1,951		120,920	65,811		113,538	55,234	122,152
1904.....	1,617	102,738	50,153	97,318	43,113	89,237		
1899.....	1,678	92,219	41,296	88,197	35,995	77,599		
PROVIDENCE STANDARD METROPOLITAN AREA								
1954 <sup>1</sup> .....	2,741	130,825	453,830	108,791	330,670	744,286		
1947.....	2,366	154,971	397,800	134,268	313,131	692,204		
1939.....	1,411	108,620	125,065	95,411	95,033	218,331		

NA Not available.

<sup>1</sup>The 1954 figures include data for establishments engaged in the processing and distribution of fluid milk, Industry Group 202, Dairy Products. These establishments were not included in the figures for the Annual Survey years 1949-1953 or earlier Census years. In addition, the 1954 Census and Annual Survey years include data for Logging camps and contractors, Industry 2411, which were not included within the scope of the 1947 Census. See footnotes to Table 4 for comparable 1954 and 1947 totals. There were also a number of changes in the definition of manufacturing industries during earlier Census years that affect the comparability of the historical series. Among the more important of these were: figures for 1935 and later years exclude data for "Railroad repair shops" and "Manufactured gas" which were included in 1899-1933 figures; the minimum size of establishment included for 1954 and 1947 was one employee, for 1939-1921 manufacturing establishments reporting value of shipments of \$5,000 or more were within scope whereas for 1919 and earlier years the cut-off was \$500. (This change in procedure has not appreciably affected the comparability of the historical data except for the figures on number of establishments.)

<sup>2</sup>The employment and payroll figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period.

## MANUFACTURES--AREA STATISTICS

Table 3.--GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
Rhode Island, total.....	791,896	2,635	123,970	425,365	103,800	207,766	314,467	697,279	27,671	<sup>1</sup> 147,382	<sup>1</sup> 658,905
STANDARD METROPOLITAN AREAS											
Fall River.....	137,298	343	26,990	73,942	24,650	44,276	61,535	111,675	3,702	(NA)	(NA)
Portion in Rhode Island..	5,659	11	88	311	68	140	209	418	23	(NA)	(NA)
Portion in Massachusetts.	131,639	332	26,902	73,631	24,582	44,135	61,326	111,257	3,679	(NA)	(NA)
Providence.....	737,203	2,741	130,825	453,830	108,791	219,308	330,670	744,286	29,218	154,971	692,204
Portion in Rhode Island..	668,918	2,427	114,716	394,296	95,631	191,894	289,421	649,110	25,584	137,782	616,353
Portion in Massachusetts.	68,285	314	16,108	59,534	13,160	27,413	41,249	95,175	3,633	17,189	75,851
COUNTIES											
Bristol.....	29,079	59	5,167	17,401	4,367	8,660	13,461	29,139	1,015	5,832	27,181
Kent.....	77,763	201	8,142	26,963	7,041	14,110	21,763	39,975	1,669	7,722	36,665
Newport.....	61,539	50	1,011	3,314	819	1,551	2,425	8,330	184	690	2,445
Providence.....	574,973	2,248	105,735	364,228	88,113	176,561	266,221	599,873	24,013	128,414	574,592
Washington.....	48,542	77	3,913	13,457	3,458	6,882	10,594	19,961	788	4,724	18,022
CITIES WITH 10,000 INHAB- ITANTS OR MORE											
Applonau.....	43,028	72	2,854	9,802	2,342	5,068	7,917	16,126	746	2,734	12,328
Central Falls.....	23,550	85	4,501	14,751	3,884	7,753	11,282	29,070	674	4,980	22,495
Cranston.....	55,060	94	6,466	26,373	5,189	13,893	19,150	43,369	4,587	6,604	31,117
Newport.....	37,564	28	768	2,437	624	1,148	1,771	7,032	115	612	2,125
Pawtucket.....	81,436	302	17,646	58,817	15,180	30,078	43,809	101,919	3,630	20,753	98,790
Providence.....	248,674	1,325	52,522	179,506	42,911	83,960	126,229	284,379	9,411	60,755	260,749
Woonsocket.....	50,211	126	7,676	25,822	6,599	12,567	19,847	42,593	1,508	14,287	68,878

NA Not available.

<sup>1</sup>The 1947 data are not strictly comparable with the figures shown for 1954 due to differences in coverage of loggers and fluid milk distributors.  
See discussion in Introduction and footnotes to Table 4.

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establish- ments, number		All employees		Production workers			Value added by manufacture	Value of shipments	Capital expendi- tures, new	All employees, number	Value added by manufacture
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
	All industries, total <sup>1</sup> ...	2,635	867	123,970	425,365	103,800	207,766	314,467	697,279	( <sup>2</sup> )	27,671	<sup>3</sup> 147,382	<sup>3</sup> 658,905
20	Food and kindred products.	268	55	6,116	22,611	3,745	7,542	12,019	40,516	( <sup>2</sup> )	2,088	( <sup>4</sup> )	( <sup>4</sup> )
201	Meat products.....	21	3	236	892	177	369	524	1,350	( <sup>2</sup> )	41	311	1,598
2011	Meat packing plants.....	8	3	153	559	118	248	352	775	( <sup>2</sup> )	25	122	650
202	Dairy products.....	98	17	1,510	5,332	720	1,456	2,132	10,796	( <sup>2</sup> )	519	( <sup>4</sup> )	( <sup>4</sup> )
2026	Fluid milk.....	38	5	395	1,235	229	469	695	2,696	7,959	146	( <sup>4</sup> )	( <sup>4</sup> )
2027	Fluid milk and other products..	35	8	799	3,128	307	661	994	5,230	18,703	235	( <sup>4</sup> )	( <sup>4</sup> )
203	Canned and frozen food.....	6	4	148	535	121	231	296	958	( <sup>2</sup> )	43	(D)	(D)
204	Grain mill products.....	5	...	36	138	31	68	107	293	( <sup>2</sup> )	8	(D)	(D)
205	Bakery products.....	67	17	2,147	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2051	Bread and related products....	66	16	2,094	7,935	1,194	2,417	3,882	11,993	24,902	463	1,895	7,642
208	Beverages.....	39	9	1,270	5,447	820	1,585	3,377	11,913	( <sup>2</sup> )	899	(D)	(D)
209	Miscellaneous foods.....	29	3	422	1,349	310	656	900	2,179	( <sup>2</sup> )	63	500	2,691
2099	Food preparations, n.e.c.....	6	1	132	329	111	247	268	587	2,035	4	132	531
21	Tobacco manufactures.....	1	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
22	Textile mill products.....	383	237	35,981	119,986	32,086	63,058	97,009	179,107	( <sup>2</sup> )	6,332	62,336	277,033
221	Woolen and worsted manufac- tures.....	98	75	10,483	34,001	9,536	18,082	28,552	47,223	( <sup>2</sup> )	1,460	28,336	120,935
2212	Yarn mills, wool, except carpet	37	33	5,223	15,894	4,798	8,929	13,327	22,441	72,454	867	11,521	46,939
2213	Woolen and worsted fabrics.....	40	27	3,221	11,114	2,858	5,514	9,246	15,032	50,206	234	13,467	59,027
2224	Yarn mills, cotton system.....	8	5	1,699	4,977	1,421	2,631	3,742	5,369	12,028	83	(D)	(D)
2234	Synthetic broad-woven fabrics..	31	22	2,383	7,825	2,167	4,308	6,399	16,897	39,497	209	6,018	31,247
2241	Narrow fabric mills.....	63	36	4,460	12,463	4,128	8,341	10,497	18,491	42,387	791	5,304	19,173
225	Knitting mills.....	12	8	699	2,165	608	1,237	1,678	4,038	( <sup>2</sup> )	190	857	2,605
2261	Finishing textiles exc. wool...	44	33	8,878	33,974	7,458	15,351	26,245	49,796	86,931	1,830	9,019	38,989
227	Carpets and rugs.....	11	5	306	895	289	568	705	1,408	( <sup>2</sup> )	4	140	813
229	Miscellaneous textile goods..	89	36	3,998	14,484	3,546	6,886	11,175	23,366	( <sup>2</sup> )	1,359	3,972	21,470
2292	Lace goods.....	55	23	2,775	10,008	2,533	4,853	8,137	15,285	22,834	1,001	2,213	12,438
2294	Processed textile waste.....	13	2	181	719	140	312	438	1,326	2,197	65	(D)	(D)
2295	Coated fabric, exc. rubberized.	4	3	341	1,342	272	578	991	2,074	7,239	90	394	1,858
2299	Textile goods, n.e.c.....	8	4	232	635	210	402	530	1,087	2,496	(D)	(D)	(D)
23	Apparel and related prod- ucts.....	75	35	4,164	10,179	3,837	7,191	8,518	18,509	( <sup>2</sup> )	159	3,132	11,070
233	Women's and misses' outerwear	16	15	897	1,954	872	1,561	1,816	2,844	( <sup>2</sup> )	16	600	1,493
2333	Dresses, unit price.....	11	11	750	1,615	736	1,336	1,526	2,586	2,647	(D)	423	809
234	Women's undergarments.....	6	3	606	1,382	582	1,176	1,262	2,122	( <sup>2</sup> )	(D)	(D)	(D)
236	Children's outerwear.....	4	2	882	2,382	816	1,588	2,061	5,001	10,903	(D)	(D)	(D)
2369	Children's outerwear, n.e.c....	4	2	882	2,382	816	1,588	2,061	5,001	10,903	(D)	(D)	(D)
238	Miscellaneous apparel.....	8	6	542	1,093	516	856	1,003	1,911	( <sup>2</sup> )	9	310	1,019
239	Fabricated textiles, n.e.c....	33	6	813	2,135	699	1,353	1,522	4,629	( <sup>2</sup> )	48	(D)	(D)
2391	Curtains and draperies.....	4	2	130	291	105	185	210	665	1,861	17	200	(D)
2399	Textile products, n.e.c.....	11	2	486	1,301	432	904	945	3,155	6,510	22	72	(D)
24	Lumber and wood products...	35	6	474	1,669	389	735	1,180	2,407	( <sup>2</sup> )	86	( <sup>4</sup> )	( <sup>4</sup> )
243	Millwork and related products	8	4	228	883	176	343	583	1,214	1,984	41	(D)	(D)
2431	Millwork plants.....	8	4	228	883	176	343	583	1,214	1,984	41	197	719
249	Miscellaneous wood products..	10	...	57	180	47	85	117	373	( <sup>2</sup> )	(D)	(D)	(D)
25	Furniture and fixtures.....	36	9	610	2,233	476	903	1,523	3,715	( <sup>2</sup> )	65	792	2,918
251	Household furniture.....	15	3	231	785	181	367	530	1,272	( <sup>2</sup> )	41	355	1,227
2541	Partitions and fixtures.....	12	4	210	857	158	301	576	1,349	2,446	20	255	898
26	Pulp, paper and products...	42	23	1,785	6,169	1,492	3,236	4,362	9,403	( <sup>2</sup> )	346	1,988	8,467
267	Paperboard containers.....	23	15	1,046	2,987	900	1,851	2,118	4,465	( <sup>2</sup> )	140	1,396	5,088
2699	Paper and board products, n.e.c	4	3	223	1,020	178	387	528	1,750	4,218	97	(D)	(D)
27	Printing and publishing....	156	29	3,661	15,729	2,379	4,602	9,428	24,589	( <sup>2</sup> )	752	3,258	15,925
2711	Newspapers.....	18	7	1,491	6,748	688	1,283	3,250	11,047	15,565	187	1,253	7,614
273	Books.....	6	2	223	1,171	179	286	820	1,626	( <sup>2</sup> )	(D)	(D)	(D)
2751	Commercial printing.....	74	7	650	2,388	504	1,049	1,542	3,722	5,974	185	921	3,688
2761	Lithographing.....	17	4	567	2,540	451	883	1,828	3,717	5,844	190	423	(D)
278	Bookbinding and related in- dustries.....	4	...	21	54	18	35	45	82	( <sup>2</sup> )	...	(D)	(D)
279	Printing trade services.....	27	8	458	2,107	370	747	1,634	2,937	( <sup>2</sup> )	123	340	1,538
2792	Engraving and plate printing...	12	4	266	1,122	224	458	897	1,675	2,164	40	158	507
2793	Photoengraving.....	9	3	126	662	93	179	464	868	1,040	54	128	732
28	Chemicals and products.....	62	14	1,301	5,514	874	1,803	2,991	10,216	( <sup>2</sup> )	1,893	1,349	10,239
282	Organic chemicals.....	8	5	297	1,334	232	460	758	2,543	( <sup>2</sup> )	61	(D)	(D)
284	Soap and related products....	19	2	304	1,402	207	451	816	2,353	( <sup>2</sup> )	1,524	289	(D)
285	Paints and allied products...	10	3	324	1,339	146	295	545	1,985	( <sup>2</sup> )	(D)	289	2,268
289	Chemical products, n.e.c.....	9	...	58	222	37	80	107	443	( <sup>2</sup> )	21	106	607

See footnotes at end of table.



## MANUFACTURES—AREA STATISTICS

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954										1947	
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
29	Petroleum and coal products	4	4	361	1,903	258	501	1,209	1,988	(2)	(D)	(D)	(D)
30	Rubber products.....	18	12	5,360	20,435	4,308	8,463	14,967	34,836	(2)	1,271	6,716	29,318
31	Leather and leather goods..	23	9	718	2,453	621	1,042	1,678	3,666	(2)	65	430	1,835
3131	Footwear cut stock.....	9	5	284	1,031	243	351	735	1,375	3,226	(D)	163	904
32	Stone, clay and glass products.....	43	9	2,003	7,802	1,651	3,367	6,046	14,443	(2)	470	1,053	4,492
322	Pressed and blown glassware..	6	3	1,507	5,863	1,281	2,614	4,782	11,492	16,076	289	(D)	(D)
3229	Pressed and blown glass, n.e.c.	6	3	1,507	5,863	1,281	2,614	4,782	11,492	16,076	289	(D)	(D)
327	Concrete and plaster products	16	3	196	889	140	316	552	1,430	2,578	99	119	563
3271	Concrete products.....	16	3	196	889	140	316	552	1,430	2,578	99	119	563
329	Nonmetallic mineral products, n.e.c.....	4	1	144	510	113	217	340	790	(2)	37	(D)	(D)
33	Primary metal industries...	67	23	6,353	25,629	5,191	10,556	18,453	52,904	(2)	2,199	5,099	28,568
332	Iron and steel foundries....	9	6	352	1,097	298	587	862	1,648	2,251	44	424	1,679
3321	Gray-iron foundries.....	9	6	352	1,097	298	587	862	1,648	2,251	44	424	1,679
3359	Rolling and drawing, n.e.c.....	5	3	189	755	151	315	482	1,111	4,490	45	(D)	(D)
3361	Nonferrous foundries.....	20	2	150	488	132	257	380	797	1,500	20	118	504
339	Primary metal industries, n.e.c.....	17	8	4,073	16,285	3,289	6,918	11,600	31,846	(2)	1,688	2,592	14,263
3392	Wire drawing.....	6	6	3,657	14,333	2,935	6,121	10,026	28,067	73,053	1,305	(D)	(D)
34	Fabricated metal products..	304	63	7,326	25,383	6,367	12,448	20,161	41,091	(2)	1,537	7,825	38,246
342	Cutlery, tools, and hardware.	24	7	2,588	9,525	2,385	4,494	8,161	15,874	(2)	562	2,807	14,030
3421	Cutlery.....	6	4	1,118	3,609	1,019	2,006	2,936	5,903	10,126	(D)	960	(D)
343	Heating and plumbing equipment.....	14	3	253	803	205	399	713	1,192	(2)	39	283	2,688
344	Structural metal products....	39	8	678	2,646	501	1,059	1,735	4,737	(2)	115	591	3,044
3441	Structural and ornamental work.	14	6	381	1,549	265	592	953	2,825	4,987	51	318	1,793
3444	Sheet-metal work.....	18	1	180	673	143	267	489	1,082	1,764	25	259	(D)
346	Metal stamping and coating...	149	24	1,843	5,301	1,643	3,132	4,252	8,307	(2)	415	1,025	3,784
3463	Metal stampings.....	22	6	511	1,786	449	888	1,395	3,097	5,919	193	360	1,360
3465	Enameling and lacquering.....	29	2	220	498	200	397	427	741	902	17	166	(D)
3468	Plating and polishing.....	88	14	1,033	2,771	923	1,708	2,216	4,057	5,629	192	461	1,774
349	Metal products, n.e.c.....	62	17	1,757	6,523	1,451	3,026	4,829	10,014	(2)	313	3,047	14,450
3495	Screw machine products.....	42	8	685	2,453	591	1,269	1,889	4,255	6,985	(D)	(D)	(D)
3499	Fabricated metal products, nec.	11	3	253	945	180	364	608	1,401	2,046	57	(D)	(D)
35	Machinery, except electrical.....	231	61	12,235	49,439	9,372	19,061	33,653	78,728	(2)	4,292	17,310	69,170
354	Metalworking machinery.....	73	17	6,329	25,731	4,793	9,569	17,490	38,140	(2)	2,179	8,766	32,668
3545	Metalworking mach. attachments.	20	6	1,533	6,723	1,194	2,503	4,558	11,100	15,341	504	(NA)	(NA)
355	Special-industrial machinery, n.e.c.....	56	22	2,543	9,820	2,013	4,005	6,824	14,844	(2)	599	4,780	20,599
3552	Textile machinery.....	38	17	2,126	8,297	1,677	3,340	5,744	12,333	18,434	505	3,660	16,524
356	General industrial machinery.	18	5	747	3,185	530	1,158	2,036	7,856	(2)	854	271	(D)
3567	Industrial furnaces and ovens..	5	2	146	627	102	232	353	1,617	2,383	(D)	94	(D)
359	Miscellaneous machinery parts	75	13	2,037	8,105	1,611	3,315	5,639	13,096	(2)	604	2,968	11,675
3594	Industrial patterns and molds..	18	3	168	700	135	285	530	947	1,238	(D)	(D)	(D)
3599	Machine shops.....	46	1	287	983	237	463	730	1,562	2,259	125	961	4,187
36	Electrical machinery.....	25	15	3,995	12,311	3,447	9,914	9,925	27,150	(2)	841	5,289	24,135
361	Electrical industrial apparatus.....	10	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3611	Wiring devices and supplies....	7	6	1,970	5,353	1,628	3,056	4,541	13,238	20,551	104	1,812	(D)
3631	Insulated wire and cable.....	4	4	788	3,289	729	4,816	2,477	4,785	17,270	265	1,535	8,345
366	Communication equipment.....	4	1	282	626	243	451	442	1,306	(2)	69	(D)	(D)
3661	Radios and related products....	4	1	282	626	243	451	442	1,306	(2)	69	(D)	(D)
3699	Communication equipment, n.e.c.	4	3	836	2,653	742	1,401	2,154	7,236	13,519	394	1,552	(D)
37	Transportation equipment...	30	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	274	881
38	Instruments and related products.....	25	15	2,249	8,481	1,688	3,261	5,211	13,181	(2)	292	1,712	8,354
384	Medical equipment and supplies.....	5	3	218	674	200	359	505	1,219	(2)	56	(D)	(D)
39	Miscellaneous manufactures <sup>5</sup>	807	240	27,980	82,621	24,554	47,823	62,372	131,900	(2)	4,057	23,077	100,388
391	Jewelry and silverware.....	290	81	9,378	29,253	8,010	15,712	21,480	50,295	(2)	1,412	10,325	50,888
3911	Jewelry (precious metal).....	130	39	5,034	14,788	4,332	8,547	10,724	25,692	40,753	366	5,527	25,401
3913	Lapidary work.....	13	3	168	282	145	204	245	475	678	12	120	433
394	Toys and sporting goods.....	14	4	894	2,511	801	1,528	1,983	4,522	(2)	84	280	639
396	Costume jewelry and notions...	386	116	13,055	35,537	11,634	22,357	26,871	52,323	(D)	1,591	10,089	38,082
3961	Costume jewelry.....	370	107	11,670	31,298	10,499	20,157	24,174	47,280	88,901	1,545	8,806	33,632
3964	Needles, pins, and fasteners...	9	6	941	3,358	723	1,484	2,081	3,858	6,169	(D)	917	3,625
3971	Plastics products, n.e.c.....	31	15	1,635	5,858	1,368	2,769	4,431	9,207	26,333	731	592	3,902
3999	Miscellaneous products, n.e.c..	14	3	497	1,354	452	960	1,036	1,882	2,991	42	862	3,074

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

Footnotes continued on next page

## Footnotes for Table 4—Rhode Island—Continued

<sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industries (4-digit) and industry groups (3-digit) are not shown. Industries and industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "all industries" line.

<sup>2</sup>The total value of shipments figures for industry groups and a few individual industries have not been published due to the extensive and unmeasurable duplication arising from shipments from one establishment to another in the same industry classification. (See Introduction.)

<sup>3</sup>The 1954 and 1947 "all industries" totals are not strictly comparable because of differences in scope between the two years in major groups 20 and 24 (see footnote 4).

<sup>4</sup>Comparable data in major groups 20 and 24 are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude establishments in S.I.C. Industry 2411, Logging Camps and Contractors, which are included in the scope of the 1954 Census; the 1947 Census also excludes plants processing and distributing fluid milk which in 1954 were classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
20	Food and kindred products except subgroup 202, Dairy products.....	4,606	29,720	4,247	20,272
24	Lumber and wood products except Industry 2411, Logging camps and contractors.....	460	2,380	495	2,202

<sup>5</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)

## MANUFACTURES—AREA STATISTICS

Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947  
(For explanation of column captions see Introduction)

Code	Industry group	Establishments, number	1954						1947		
			All employees		Production workers			Value added by manufacture	Capital expenditures, new	All employees, number	Value added by manufacture
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
PROVIDENCE STANDARD METROPOLITAN AREA <sup>1</sup>											
	All industries, total <sup>2</sup> ...	2,741	130,825	453,830	108,791	219,308	330,670	744,286	29,218	<sup>3</sup> 154,971	<sup>3</sup> 692,204
20	Food and kindred products...	259	5,960	22,119	3,626	7,324	11,684	39,268	2,018	( <sup>4</sup> )	( <sup>4</sup> )
201	Meat products.....	22	236	891	177	369	522	1,344	39	332	1,662
202	Dairy products.....	101	1,440	5,120	687	1,393	1,994	10,170	490	( <sup>4</sup> )	( <sup>4</sup> )
205	Bakery products.....	63	2,150	8,096	1,236	2,507	3,968	12,180	477	(D)	(D)
208	Beverages.....	38	1,274	5,460	817	1,577	3,372	11,917	908	1,219	6,987
209	Miscellaneous foods.....	26	415	1,333	303	644	883	2,156	55	479	2,612
21	Tobacco manufactures.....	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
22	Textile mill products.....	330	30,742	103,236	27,306	54,204	82,961	157,711	5,072	55,805	248,663
221	Woolen and worsted manufactures	90	9,863	32,333	8,991	17,071	27,222	46,370	1,477	24,923	104,156
222	Yarn and thread mills.....	17	2,146	6,559	1,811	3,430	4,763	8,025	177	3,376	18,355
223	Broad-woven fabrics.....	43	4,123	12,997	3,852	7,550	11,191	24,010	335	10,905	53,117
224	Narrow fabric mills.....	57	3,565	9,873	3,288	6,575	8,400	15,032	596	4,164	15,431
225	Knitting mills.....	12	596	1,816	525	1,076	1,398	3,431	153	1,004	3,320
226	Finishing textiles exc. wool...	39	7,286	28,257	6,047	12,972	21,452	42,198	1,623	7,886	34,976
23	Apparel & related products..	74	3,901	9,646	3,595	6,666	8,071	17,419	146	3,207	11,209
233	Women's & misses' outerwear....	15	773	1,735	748	1,314	1,597	2,531	16	633	1,511
236	Children's outerwear.....	5	886	2,394	820	1,597	2,071	5,032	(D)	(D)	(D)
238	Miscellaneous apparel.....	8	542	1,093	516	856	1,003	1,911	9	(D)	(D)
24	Lumber and wood products....	34	423	1,489	340	636	1,022	2,111	83	612	2,645
25	Furniture and fixtures.....	35	561	2,074	434	811	1,391	3,474	63	701	(D)
251	Household furniture.....	14	182	627	138	275	397	1,031	38	(D)	(D)
254	Partitions and fixtures.....	12	210	857	158	301	576	1,349	20	255	898
26	Pulp, paper and products....	47	2,441	8,503	2,013	4,186	5,719	14,255	458	2,520	11,609
267	Paperboard containers.....	26	1,451	3,998	1,259	2,524	2,882	5,937	178	1,677	5,948
27	Printing and publishing.....	156	3,650	15,600	2,392	4,582	9,349	24,595	980	3,292	16,035
271	Newspapers.....	16	1,414	6,385	641	1,147	3,023	10,619	391	1,211	7,465
273	Books.....	6	223	1,171	179	286	820	1,626	(D)	(D)	(D)
275	Commercial printing.....	73	701	2,572	545	1,136	1,658	4,002	194	995	3,925
276	Lithographing.....	18	584	2,577	467	903	1,863	3,785	207	(D)	(D)
28	Chemicals and products.....	63	1,241	5,327	822	1,729	2,828	9,688	1,889	1,313	10,084
29	Petroleum and coal products.	6	369	1,928	263	512	1,230	2,034	(D)	(D)	(D)
30	Rubber products.....	17	5,358	20,433	4,307	8,461	14,966	34,835	1,266	6,651	(D)
31	Leather and leather goods...	24	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
316	Luggage.....	5	259	885	220	405	545	1,297	21	(D)	(D)
317	Purses & small leather goods...	4	554	1,855	528	1,068	1,684	2,574	10	(D)	(D)
32	Stone, clay, & glass prod...	39	1,946	7,557	1,608	3,281	5,889	14,114	469	1,063	4,469
322	Pressed and blown glass.....	6	1,507	5,863	1,281	2,614	4,782	11,492	289	(D)	(D)
327	Concrete and plaster products..	16	172	753	126	280	483	1,242	100	(D)	(D)
33	Primary metal industries....	80	6,815	(D)	5,560	(D)	(D)	(D)	(D)	5,335	29,622
339	Primary metal industries, nec..	17	4,073	16,285	3,289	6,918	11,600	31,846	1,688	2,592	14,263
34	Fabricated metal products...	338	7,997	27,926	6,958	13,793	22,081	44,703	1,616	8,521	41,620
343	Heating and plumbing equipment.	14	253	803	205	399	713	1,192	39	283	2,688
344	Structural metal products.....	38	684	2,665	506	1,067	1,753	4,770	117	593	3,078
346	Metal stamping and coating....	182	2,264	6,708	2,010	3,968	5,327	10,327	452	1,458	5,914
348	Fabricated wire products.....	12	137	453	118	231	355	679	93	(D)	(D)
35	Machinery, exc. electrical..	250	13,013	52,650	9,998	20,567	36,194	83,536	4,746	19,793	77,478
355	Special-industry mach., n.e.c..	58	2,807	11,018	2,228	4,458	7,641	16,667	869	6,871	26,908
359	Miscellaneous mach. parts.....	77	2,395	9,580	1,889	4,065	6,899	15,404	716	(D)	(D)
36	Electrical machinery.....	25	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5,670	26,369
361	Elec. industrial apparatus.....	10	1,835	5,103	1,490	2,824	4,265	9,968	161	2,443	9,775
369	Electrical products, n.e.c.....	4	818	2,544	725	1,367	2,067	7,074	392	(D)	(D)
37	Transportation equipment....	21	791	2,745	657	1,381	2,134	6,879	385	231	(D)
373	Ships and boats.....	11	112	381	92	194	290	443	46	(D)	(D)
38	Instruments & related prod.	26	3,564	13,101	2,790	5,544	8,585	22,340	494	2,764	13,239

See footnotes at end of table.



Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Code	Industry group	Establishments, number	1954							1947	
			All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours ((1,000)	Wages (\$1,000)				
39	Miscellaneous manufactures <sup>5</sup> .	916	37,117	116,460	31,839	62,838	84,461	181,966	5,806	31,827	139,119
391	Jewelry and silverware.....	360	14,152	48,051	11,654	23,639	32,924	77,294	2,255	15,881	75,948
397	Plastics products, n.e.c.....	37	1,911	6,884	1,613	3,300	5,236	11,040	841	805	4,864

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>The Providence Standard Metropolitan Area consists of Central Falls, Cranston, Pawtucket, Providence, and Woonsocket cities; Cumberland, East Providence, Johnston, Lincoln, North Providence, North Smithfield, and Smithfield towns in Providence County, Rhode Island; North Kingstown town in Washington County, Rhode Island; Warwick City; East Greenwich and West Warwick towns in Kent County, Rhode Island; Bristol County, Rhode Island; Attleboro city, North Attleborough and Seekonk towns in Bristol County, Massachusetts; Bellingham, Franklin, Plainville, and Wrentham towns in Norfolk County, Massachusetts; Blackstone and Millville towns in Worcester County, Massachusetts.

<sup>2</sup>In order to avoid disclosing figures for individual companies, the statistics for some industry groups (3-digit) are now shown. Industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "All industries" line.

<sup>3</sup>The 1954 and 1947 "All industries" totals are not strictly comparable because of differences in scope between the two years in Major Group 20 (see footnote 3).

<sup>4</sup>Comparable data for Major Group 20 are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude plants processing and distributing fluid milk which in 1954 were classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
20	Food and kindred products except Subgroup 202, Dairy Products.....	4,520	29,098	4,450	22,650

<sup>5</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)

## MANUFACTURES—AREA STATISTICS

Table 6.—GENERAL STATISTICS FOR PRINCIPAL INDUSTRIAL COUNTIES, BY MAJOR INDUSTRY GROUP: 1954 AND 1947

(Principal industrial counties include all counties with 20,000 or more manufacturing employees. For explanation of column captions see Introduction)

Code	Major industry group	1954								1947	
		Establish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
		PROVIDENCE COUNTY									
	All industries, total <sup>1</sup> .....	2,248	105,735	364,228	88,113	176,561	266,221	599,873	24,013	<sup>2</sup> 128,414	<sup>2</sup> 574,592
20	Food and kindred products.....	211	5,450	20,419	3,318	6,677	10,796	36,405	1,801	4,233	21,738
22	Textile mill products.....	275	26,922	88,853	23,916	46,735	71,507	137,079	4,397	50,077	223,957
23	Apparel and related products..	53	2,768	7,031	2,524	4,586	5,690	12,434	134	2,141	7,142
24	Lumber and wood products.....	26	330	1,188	261	476	779	1,697	78	467	2,047
27	Printing and publishing.....	129	3,356	14,519	2,174	4,193	8,682	22,579	693	3,003	14,894
28	Chemicals and products.....	51	1,080	4,666	697	1,464	2,419	8,737	1,851	1,178	8,701
30	Rubber products.....	12	4,156	16,173	3,291	6,531	11,754	28,050	1,037	5,551	24,846
31	Leather and leather goods.....	19	385	1,254	333	501	893	1,932	32	417	(D)
32	Stone, clay, & glass products..	35	1,940	7,549	1,604	3,274	5,883	14,103	466	1,012	4,308
34	Fabricated metal products.....	274	6,679	22,978	5,847	11,375	18,385	36,885	1,357	7,695	37,715
35	Machinery, except electrical..	190	11,463	46,257	8,796	17,848	31,616	73,541	4,088	16,966	66,901
36	Electrical machinery.....	20	3,265	11,443	2,750	8,639	8,254	20,380	830	4,729	(D)
37	Transportation equipment.....	11	680	2,367	566	1,188	1,846	6,440	339	131	426
38	Instruments & related products	22	2,245	8,477	1,684	3,256	5,207	13,165	292	1,711	8,354
39	Miscellaneous manufactures <sup>3</sup> ...	780	27,309	80,492	23,987	46,688	60,783	128,602	3,962	22,359	(D)

D Withheld to avoid disclosing data for individual companies.

<sup>1</sup>In order to avoid disclosing data for individual companies, the statistics for some industry groups are not shown. Industry groups reporting less than 100 employees are also omitted. They are included, however, in the "All industries" line.<sup>2</sup>The 1954 and 1947 "All industries" totals are not strictly comparable because of differences in coverage of loggers and fluid milk distributors. See discussion in Introduction and footnote to Table 4 for comparable figures at the State level.<sup>3</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)

Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954

20 Food and kindred products	26 Pulp, paper and products	32 Stone, clay, and glass products	38 Instruments and related products
21 Tobacco manufactures	27 Printing and publishing	33 Primary metal industries	39 Miscellaneous manufactures (Includes Group 19)
22 Textile mill products	28 Chemicals and products	34 Fabricated metal products	Ordnance and accessories)
23 Apparel and related products	29 Petroleum and coal products	35 Machinery, except electrical	
24 Lumber and wood products	30 Rubber products	36 Electrical machinery	
25 Furniture and fixtures	31 Leather and leather goods	37 Transportation equipment	

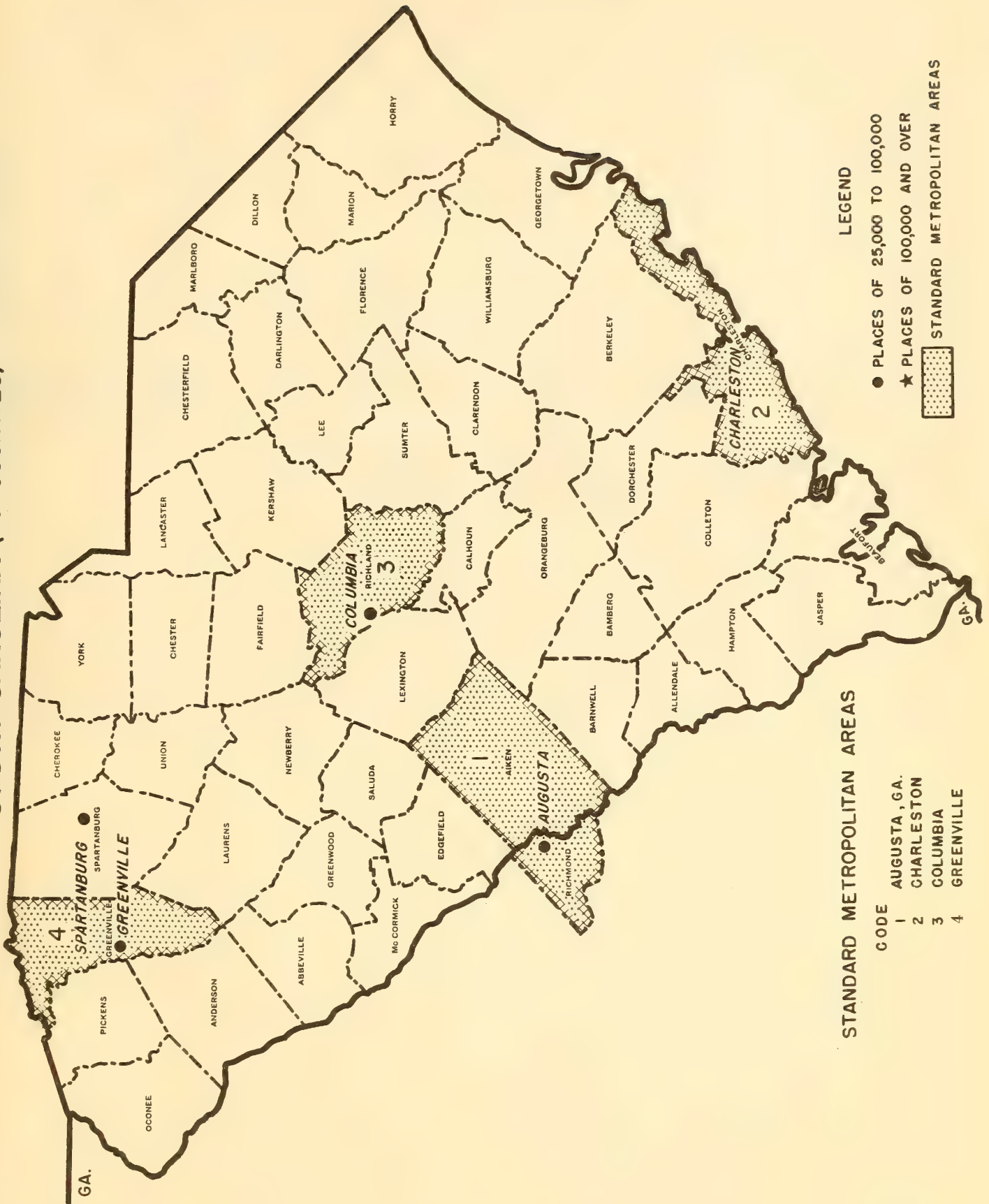
(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Rhode Island, total.....	2,635	268	1	383	75	35	36	42	156	62	4	18	23	43	67	304	231	25	30	25	807
1 to 4 employees.....	906	125	...	44	22	19	15	5	76	25	...	4	5	20	18	115	94	4	11	5	299
5 to 9 employees.....	450	48	1	49	7	4	7	5	26	11	...	2	4	6	16	73	44	1	8	2	136
10 to 19 employees.....	412	40	...	53	11	6	5	9	25	12	...	...	5	8	10	53	32	5	3	3	132
20 to 49 employees.....	395	30	...	81	12	4	6	12	17	5	2	2	5	6	7	33	29	2	5	6	131
50 to 99 employees.....	213	10	...	61	13	1	2	7	4	7	1	1	3	...	4	16	14	3	1	5	60
100 to 249 employees.....	148	10	...	55	7	1	1	3	7	2	1	4	1	1	3	11	9	3	...	2	27
250 to 499 employees.....	66	4	...	28	2	...	...	1	...	...	...	1	...	...	3	1	4	6	2	1	13
500 to 999 employees.....	35	1	...	10	1	...	...	...	1	...	...	3	...	2	5	1	3	1	...	...	7
1,000 to 2,499 employees.....	9	...	...	2	...	...	...	...	...	...	...	1	...	...	1	1	1	...	...	1	2
2,500 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
Bristol:																					
1 to 19 employees.....	35	12	...	2	4	1	...	...	4	1	...	...	...	...	1	...	4	...	4	...	2
20 to 99 employees.....	14	2	...	2	4	...	...	1	...	...	...	1	1	...	...	...	1	...	2	...	...
100 employees and over.....	10	...	...	4	1	...	...	...	...	...	...	3	...	...	1	...	...	...	...	...	1
Kent:																					
1 to 19 employees.....	133	13	...	39	5	1	1	2	10	6	...	...	1	1	...	15	22	1	1	2	13
20 to 99 employees.....	50	3	...	22	2	...	1	...	2	2	...	...	1	...	2	8	5	...	...	...	2
100 employees and over.....	18	...	...	9	3	...	...	...	...	...	...	1	1	...	...	1	1	1	1	...	...
Newport:																					
1 to 19 employees.....	39	12	...	1	...	4	...	...	5	1	...	...	...	...	...	4	3	...	6	...	3
20 to 99 employees.....	9	1	...	1	...	2	...	...	1	...	...	...	...	...	...	...	1	1	1	...	1
100 employees and over.....	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	...	...	...
Providence:																					
1 to 19 employees.....	1,514	164	1	97	29	22	26	17	104	40	...	5	13	27	43	221	138	8	7	7	545
20 to 99 employees.....	512	32	...	103	18	3	6	18	17	9	3	2	6	5	9	41	35	4	3	11	187
100 employees and over.....	222	15	...	75	6	1	1	4	8	2	1	5	...	3	11	12	17	8	1	4	48
Washington:																					
1 to 19 employees.....	47	12	...	7	2	1	...	...	4	...	...	1	...	6	...	1	3	1	4	1	4
20 to 99 employees.....	23	2	...	14	1	...	1	...	1	1	...	...	...	1	...	...	1	...	...	...	1
100 employees and over.....	7	...	...	7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...





# SOUTH CAROLINA (46 COUNTIES)



## STANDARD METROPOLITAN AREAS

CODE	AUGUSTA, GA.
1	AUGUSTA, GA.
2	CHARLESTON
3	COLUMBIA
4	GREENVILLE

## LEGEND

- PLACES OF 25,000 TO 100,000
- ★ PLACES OF 100,000 AND OVER
- STANDARD METROPOLITAN AREAS

## MANUFACTURES—AREA STATISTICS

Table 1.—MANUFACTURING EMPLOYMENT AT OPERATING ESTABLISHMENTS AND CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARIES FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS

(This table includes data for all manufacturing employees including those located in central administrative offices and auxiliaries. Tables 2-7 in this report include data for operating establishments only. For explanation of column captions see Introduction)

State, standard metropolitan areas, and year <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	(Number)	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
South Carolina:						
1954.....	219,826	634,743	219,447	632,709	379	2,034
1953 <sup>2</sup> .....	223,396	612,971	221,860	606,907	1,536	6,064
1952 <sup>2</sup> .....	207,365	561,854	206,182	558,026	<sup>3</sup> 1,183	<sup>3</sup> 3,828
1951 <sup>2</sup> .....	200,864	524,283	199,681	520,455	1,183	3,828
1950 <sup>2</sup> .....	195,954	465,617	194,408	461,773	1,546	3,844
1949 <sup>2</sup> .....	189,207	424,266	187,678	420,682	1,529	3,584
1954						
Standard metropolitan areas:						
Augusta <sup>4</sup> .....	27,764	112,133	27,748	112,011	16	122
Charleston <sup>5</sup> .....	9,282	27,150	9,233	26,930	49	220
Columbia <sup>6</sup> .....	7,697	20,870	7,691	20,847	6	23
Greenville <sup>7</sup> .....	27,470	78,807	27,349	78,079	121	728

<sup>1</sup>Employment data for administrative offices and auxiliaries on a State basis are not available for the years prior to 1949. Similar data for standard metropolitan areas are available only for 1954.<sup>2</sup>The employment figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period. The employment figures for administrative and auxiliary units were compiled chiefly from Bureau of Old-Age and Survivors Insurance records and are not strictly comparable with the figures for these units that were collected by the Bureau of the Census for the year 1954.<sup>3</sup>The 1951 data are shown for 1952 since auxiliary and administrative unit data were not collected in 1952.<sup>4</sup>The Augusta Standard Metropolitan Area consists of Aiken County, South Carolina; Richmond County, Georgia.<sup>5</sup>The Charleston Standard Metropolitan Area consists of Charleston County, South Carolina.<sup>6</sup>The Columbia Standard Metropolitan Area consists of Richland County, South Carolina.<sup>7</sup>The Greenville Standard Metropolitan Area consists of Greenville County, South Carolina.



Table 2.—GENERAL STATISTICS FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Year	Establish- ments, number	All employees		Production workers		Value added by manufacture (\$1,000)
		Number	Payroll (\$1,000)	Number	Wages (\$1,000)	
SOUTH CAROLINA						
1954 <sup>1</sup> .....	2,720	219,447	632,709	190,119	486,960	1,040,936
1953 <sup>2</sup> .....	(NA)	221,860	606,907	201,047	513,537	1,056,243
1952 <sup>2</sup> .....	(NA)	206,182	558,026	187,241	466,588	969,926
1951 <sup>2</sup> .....	(NA)	199,681	520,455	184,684	447,697	926,277
1950 <sup>2</sup> .....	(NA)	194,408	461,773	178,455	402,060	857,716
1949 <sup>2</sup> .....	(NA)	187,678	420,682	169,759	358,053	719,044
1947.....	2,135	188,760	377,105	175,889	330,670	793,915
1939.....	1,300	136,094	103,171	126,408	86,280	169,294
1937.....	1,193	135,182	103,633	129,748	91,792	175,478
1935.....	1,121	113,366	76,109	108,558	65,946	112,538
1933.....	888	(NA)	(NA)	104,336	54,761	116,522
1931.....	1,044	(NA)	(NA)	87,010	50,926	109,349
1929.....	1,659	113,876	86,023	108,777	73,223	159,351
1927.....	1,059	(NA)	(NA)	108,992	74,478	151,562
1925.....	1,134	(NA)	(NA)	100,144	67,062	133,056
1923.....	1,180	(NA)	(NA)	96,802	64,753	139,206
1921.....	1,107	(NA)	(NA)	76,251	51,410	94,519
1919.....	1,821	83,982	72,336	78,918	61,934	152,301
1914.....	1,885	75,878	29,052	71,824	24,173	47,882
1909.....	1,854	76,303	24,117	73,046	20,361	46,885
1904.....	1,399	61,830	16,224	59,441	13,869	29,408
1899.....	1,369	48,444	10,438	47,025	9,130	22,850
STANDARD METROPOLITAN AREAS (None with 40,000 or more manufacturing employees in this State)						

NA Not available.

<sup>1</sup>The 1954 figures include data for establishments engaged in the processing and distribution of fluid milk, Industry Group 202, Dairy Products. These establishments were not included in the figures for the Annual Survey years 1949-1953 or earlier Census years. In addition, the 1954 Census and Annual Survey years include data for Logging camps and contractors, Industry 2411, which were not included within the scope of the 1947 Census. See footnotes to Table 4 for comparable 1954 and 1947 totals. There were also a number of changes in the definition of manufacturing industries during earlier Census years that affect the comparability of the historical series. Among the more important of these were: figures for 1935 and later years exclude data for "Railroad repair shops" and "Manufactured gas" which were included in 1899-1933 figures; the minimum size of establishment included for 1954 and 1947 was one employee, for 1939-1921 manufacturing establishments reporting value of shipments of \$5,000 or more were within scope whereas for 1919 and earlier years the cutoff was \$500. (This change in procedure has not appreciably affected the comparability of the historical data except for the figures on number of establishments.)

<sup>2</sup>The employment and payroll figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments.) The Standard Error's Associated with these estimates are published in the Annual Survey of Manufactures volume for this period.

## MANUFACTURES--AREA STATISTICS

Table 3.--GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
South Carolina, total.....	2,117,027	2,720	219,447	632,709	190,119	378,931	486,960	1,040,936	59,629	<sup>1</sup> 188,760	<sup>1</sup> 793,915
STANDARD METROPOLITAN AREAS											
Augusta area, total.....	162,013	175	27,748	112,011	16,079	32,171	47,730	152,594	4,096	15,094	56,444
Portion in South Carolina.....	53,137	49	19,146	87,504	8,927	17,758	30,083	106,141	1,594	6,155	19,149
Portion in Georgia.....	108,876	126	8,602	24,507	7,152	14,413	17,647	46,453	2,502	8,939	37,295
Charleston.....	164,856	151	9,233	26,930	7,508	14,797	19,441	54,333	5,835	9,972	39,617
Columbia.....	142,565	147	7,691	20,847	6,284	12,541	15,166	35,603	2,100	6,935	27,190
Greenville.....	168,152	248	27,349	78,079	24,307	48,950	62,929	124,076	5,557	26,274	128,045
COUNTIES											
Abbeville.....	22,456	20	2,781	7,760	2,637	4,202	6,878	9,515	537	2,679	12,497
Aiken.....	53,137	49	19,146	87,504	8,927	17,758	30,083	106,141	1,594	6,155	19,149
Allendale.....	11,773	17	408	932	372	797	692	1,461	142	342	710
Anderson.....	90,664	110	16,816	46,129	15,744	32,131	40,910	74,458	4,914	13,832	64,476
Bamberg.....	17,533	24	823	1,696	750	1,482	1,429	2,491	82	809	2,117
Barnwell.....	17,266	14	288	515	269	377	441	802	14	338	520
Beaufort.....	26,993	18	237	400	200	312	292	744	65	292	572
Berkeley.....	30,251	37	1,177	2,323	1,082	2,316	2,055	3,490	298	843	2,447
Calhoun.....	14,753	22	449	883	431	845	824	3,016	35	359	755
Charleston.....	164,856	151	9,233	26,930	7,508	14,797	19,441	54,333	5,835	9,972	39,617
Cherokee.....	34,992	42	4,371	10,749	4,183	8,115	9,728	15,513	802	3,910	17,568
Chester.....	32,597	45	4,685	13,115	4,377	8,983	11,830	23,038	1,416	4,798	15,701
Chesterfield.....	36,236	60	2,009	4,216	1,884	3,406	3,615	6,736	503	1,443	(D)
Clarendon.....	32,215	27	796	1,491	756	1,575	1,384	3,158	83	430	1,191
Colleton.....	28,242	56	1,022	1,591	917	1,502	1,297	2,774	176	874	1,811
Darlington.....	50,016	51	4,966	15,839	4,347	8,636	12,383	28,387	2,029	4,474	18,367
Dillon.....	30,930	27	759	1,272	690	1,155	1,015	1,924	98	947	3,684
Dorchester.....	22,601	58	1,113	2,711	963	1,769	2,134	5,392	300	754	2,026
Edgefield.....	16,591	44	1,508	3,772	1,387	2,657	3,258	8,086	407	824	3,874
Fairfield.....	21,780	83	2,315	5,511	2,094	3,774	4,566	8,526	464	2,226	6,458
Florence.....	79,710	84	2,589	5,770	2,171	4,212	4,115	9,064	1,181	1,864	5,950
Georgetown.....	31,762	68	3,023	(D)	2,662	(D)	(D)	(D)	(D)	2,992	(D)
Greenville.....	168,152	248	27,349	78,079	24,307	48,950	62,929	124,076	5,557	26,274	128,045
Greenwood.....	41,628	74	10,875	30,551	10,237	20,492	27,537	53,360	2,624	11,000	48,723
Hampton.....	18,027	32	1,061	2,655	865	1,829	1,912	4,056	482	1,430	5,843
Horry.....	59,820	86	1,490	2,985	1,298	2,491	2,382	4,012	318	869	2,660
Jasper.....	10,995	15	625	1,191	588	1,249	1,076	1,191	80	1,200	2,457
Kershaw.....	32,287	52	2,804	10,582	2,302	4,668	7,392	40,592	1,196	1,147	3,969
Lancaster.....	37,071	35	7,677	(D)	7,063	(D)	(D)	(D)	(D)	6,317	26,128
Laurens.....	46,974	48	6,861	18,543	6,477	12,971	16,358	28,271	713	6,594	30,590
Lee.....	23,173	13	501	1,192	457	989	945	1,632	352	192	510
Lexington.....	44,279	99	2,280	5,178	2,045	3,841	4,079	8,937	767	2,168	8,435
McCormick.....	9,577	37	893	(D)	848	(D)	(D)	(D)	(D)	522	(D)
Marion.....	33,110	32	1,578	3,198	1,437	2,855	2,571	5,217	219	1,320	3,703
Marlboro.....	31,766	27	2,562	6,675	2,317	4,560	5,225	10,220	908	1,652	6,395
Newberry.....	31,771	73	4,013	9,882	3,700	7,079	8,952	16,539	368	4,272	18,349
Oconee.....	39,050	61	5,774	13,973	5,489	10,726	12,717	20,719	1,433	3,519	14,920
Orangeburg.....	68,726	81	3,192	7,903	2,723	5,439	5,719	11,698	446	2,814	8,975
Pickens.....	40,058	55	5,086	13,633	4,739	10,098	12,181	21,363	5,437	4,979	17,629
Rickland.....	142,565	147	7,691	20,847	6,284	12,541	15,166	35,603	2,100	6,935	27,190
Saluda.....	15,924	35	733	1,233	701	1,158	1,132	1,900	31	483	1,052
Spartanburg.....	150,349	149	25,153	68,814	23,181	46,377	59,694	104,607	4,854	24,340	113,225
Sumter.....	57,634	64	2,745	6,355	2,346	4,804	4,672	11,990	546	3,325	9,451
Union.....	31,334	45	5,359	14,264	5,071	10,128	12,896	20,526	745	5,316	28,660
Williamburg.....	43,807	36	524	1,047	469	872	875	1,987	131	483	650
York.....	71,596	69	12,085	36,616	10,803	21,498	30,392	67,580	2,820	10,452	41,665
CITIES WITH 10,000 INHAB- ITANTS OR MORE											
Aiken.....	...	12	801	2,295	723	1,408	1,966	3,940	32	(NA)	(NA)
Anderson.....	19,770	28	2,468	6,709	2,182	4,332	5,417	10,588	1,879	2,110	10,510
Charleston.....	70,174	72	4,936	14,336	3,788	7,304	9,866	29,344	4,545	5,243	18,186
Columbia.....	86,914	96	6,253	16,685	5,329	10,604	12,883	28,169	1,424	3,609	14,113
Florence.....	22,513	31	1,150	2,745	888	1,779	1,755	3,886	516	643	2,590
Greenville.....	58,161	120	6,038	17,552	4,804	9,566	11,597	31,600	1,345	5,280	22,926
Greenwood.....	13,806	29	2,960	7,553	2,775	5,368	6,592	11,587	1,033	3,082	14,306
Orangeburg.....	15,322	24	1,391	3,350	1,203	2,372	2,455	5,369	162	1,157	4,233
Rock Hill.....	24,502	26	6,194	19,490	5,583	10,946	16,375	32,461	1,349	5,126	24,031
Spartanburg.....	36,795	58	5,394	14,836	4,677	9,328	11,720	21,877	916	5,341	28,253
Sumter.....	20,185	37	2,391	5,628	2,038	4,176	4,120	10,729	460	1,691	5,217

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>The 1947 data are not strictly comparable with the figures shown for 1954 due to differences in coverage of loggers and fluid milk distributors.  
See discussion in Introduction and footnotes to Table 4.



Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manufacture	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
	All industries, total <sup>1</sup> ...	2,720	834	219,447	632,709	190,119	378,931	486,960	1,040,936	( <sup>2</sup> )	59,629	3188,760	3793,915
20	Food and kindred products..	369	99	9,062	25,824	5,262	11,112	11,679	51,417	( <sup>2</sup> )	6,662	( <sup>4</sup> )	( <sup>4</sup> )
201	Meat products.....	54	15	1,566	4,625	1,137	2,489	2,813	7,255	( <sup>2</sup> )	440	1,135	4,476
2011	Meat packing, plants.....	27	11	1,320	4,236	918	2,148	2,480	5,953	( <sup>2</sup> )	315	1,030	3,919
2015	Poultry dressing, plants.....	15	4	198	293	180	277	256	1,075	5,749	74	(D)	(D)
202	Dairy products.....	55	19	1,436	4,468	647	1,547	1,846	9,961	( <sup>2</sup> )	910	( <sup>4</sup> )	( <sup>4</sup> )
2024	Ice cream and ices.....	10	7	275	817	144	293	340	1,846	4,119	267	( <sup>4</sup> )	( <sup>4</sup> )
2027	Fluid milk and other products..	25	10	996	3,250	376	965	1,206	6,788	21,183	554	( <sup>4</sup> )	( <sup>4</sup> )
203	Canned and frozen foods.....	23	7	539	917	503	882	826	2,898	( <sup>2</sup> )	121	578	1,105
2031	Canned seafood.....	5	4	273	435	261	480	414	567	1,002	(D)	321	467
2035	Pickles and sauces.....	7	2	170	341	152	276	286	2,018	5,765	80	68	(D)
204	Grain mill products.....	44	10	773	2,190	551	1,147	1,119	4,564	( <sup>2</sup> )	364	482	2,341
2042	Prepared animal feeds.....	23	6	570	1,655	407	884	854	3,501	16,198	233	314	1,692
205	Bakery products.....	31	11	1,784	5,751	1,023	2,317	2,479	9,228	20,503	4,165	1,799	8,816
2051	Bread and related products....	31	11	1,784	5,751	1,023	2,317	2,479	9,228	20,503	4,165	1,445	(D)
207	Candy and related products...	7	1	213	532	155	261	242	867	1,893	14	234	(D)
2071	Confectionery products.....	7	1	213	532	155	261	242	867	1,893	14	234	(D)
208	Beverages.....	88	28	1,967	5,555	859	1,812	1,709	12,316	( <sup>2</sup> )	495	1,536	7,702
209	Miscellaneous foods.....	67	8	781	1,783	385	654	642	4,327	( <sup>2</sup> )	149	1,679	6,670
21	Tobacco manufactures.....	5	5	1,586	3,575	1,505	2,732	3,196	5,728	( <sup>2</sup> )	128	1,988	(D)
22	Textile mill products.....	280	248	129,091	360,738	122,004	245,985	323,965	559,826	( <sup>2</sup> )	34,217	124,559	558,680
221	Woolen and worsted manufac- tures.....	16	15	3,212	9,472	2,959	6,288	8,120	16,036	( <sup>2</sup> )	1,521	1,605	6,364
2212	Yarn mills, wool, except carpet	5	5	988	2,867	939	2,047	2,659	3,819	20,260	(D)	100	(D)
2213	Woolen and worsted fabrics.....	7	7	1,726	5,073	1,583	3,291	4,271	10,214	30,960	679	1,505	(D)
222	Yarn and thread mills.....	27	26	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2224	Yarn mills, cotton system.....	23	23	4,852	11,293	4,575	8,504	9,879	17,624	70,289	855	(D)	(D)
223	Broad-woven fabrics.....	158	152	102,790	284,042	97,982	197,571	259,061	429,327	( <sup>2</sup> )	22,806	103,965	479,112
2233	Cotton broad-woven fabrics.....	126	121	82,432	224,448	78,760	158,365	205,904	331,161	838,519	20,601	83,466	368,559
2234	Synthetic broad-woven fabrics..	32	31	20,358	59,594	19,221	39,206	53,156	98,166	258,966	2,204	20,499	110,553
2241	Narrow fabric mills.....	13	7	692	1,897	637	1,235	1,536	2,961	7,561	132	489	2,641
225	Knitting mills.....	27	21	1,909	4,988	1,760	3,283	4,170	6,810	( <sup>2</sup> )	297	1,165	4,245
2251	Full-fashioned hosiery mills...	15	12	895	2,833	823	1,637	2,417	4,257	7,442	115	609	2,510
2256	Knit fabric mills.....	4	3	342	935	299	589	721	782	8,627	44	87	(D)
2261	Finishing textile exc. wool..	23	19	13,740	44,364	12,323	25,745	37,237	79,556	232,709	7,765	9,445	41,424
227	Carpets and rugs.....	5	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2273	Carpets and rugs, except wool..	4	2	297	971	272	556	792	1,342	4,179	(D)	115	(D)
229	Miscellaneous textile goods..	11	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2294	Processed textile waste.....	5	2	127	280	104	196	194	462	747	50	83	(D)
23	Apparel and related prod- ucts.....	137	104	19,777	41,851	18,533	35,049	36,485	67,955	( <sup>2</sup> )	2,239	10,824	38,292
232	Men's and boys' furnishings..	48	43	7,854	15,256	7,392	13,770	13,452	21,098	( <sup>2</sup> )	949	5,243	13,732
2321	Men's dress shirts and nightwear	39	37	6,923	13,505	6,498	12,141	11,884	18,765	35,181	(D)	4,786	12,797
2322	Men's and boys' underwear.....	5	5	866	1,582	843	1,539	1,488	1,978	6,590	(D)	162	(D)
233	Women's and misses' outerwear	31	27	5,430	10,128	5,185	9,893	8,930	17,459	( <sup>2</sup> )	384	1,341	5,357
2334	Dresses, dozen price.....	15	14	3,454	6,320	3,288	6,524	5,534	8,079	13,491	300	568	(D)
234	Women's undergarments.....	11	10	1,784	3,835	1,674	3,289	3,410	6,372	( <sup>2</sup> )	125	(D)	(D)
236	Children's outerwear.....	8	7	822	1,514	792	1,443	1,343	2,935	( <sup>2</sup> )	129	(D)	(D)
238	Miscellaneous apparel.....	8	5	368	623	340	579	527	899	( <sup>2</sup> )	7	(D)	(D)
2384	Robes and dressing gowns.....	4	3	222	330	206	339	292	496	1,416	1	(D)	(D)
2388	Handkerchiefs.....	2	2	126	270	115	219	216	373	1,099	5	344	(D)
239	Apparel, n.e.c.....	29	11	3,321	10,158	2,965	5,829	8,529	18,798	( <sup>2</sup> )	643	3,061	17,860
2392	House furnishings, n.e.c.....	7	4	2,720	8,823	2,414	4,776	7,412	16,280	43,888	626	2,666	(D)
2393	Textile bags.....	3	2	128	176	126	217	166	278	800	...	(D)	(D)
2399	Textile products, n.e.c.....	11	3	355	884	316	616	721	1,822	9,073	15	292	(D)
24	Lumber and wood products...	1,257	176	18,057	32,550	16,686	30,721	27,722	51,695	( <sup>2</sup> )	2,859	( <sup>4</sup> )	( <sup>4</sup> )
2411	Logging camps and contractors	535	10	2,736	4,069	2,412	3,829	3,510	6,697	11,361	804	( <sup>4</sup> )	( <sup>4</sup> )
242	Lumber and basic products....	643	131	11,352	19,828	10,703	19,807	17,380	30,638	( <sup>2</sup> )	1,650	16,294	41,633
2421	Sawmills and planing mills.....	622	114	10,518	18,337	9,919	18,422	16,114	28,451	65,463	1,566	15,090	39,049
2422	Veneer mills.....	15	14	644	1,132	603	1,050	940	1,500	2,701	77	1,154	(D)
2424	Cooperage stock mills.....	6	3	188	359	180	334	325	686	1,380	6	(D)	(D)
243	Millwork and related products	46	21	2,388	5,226	2,154	4,370	4,129	8,545	( <sup>2</sup> )	235	2,885	11,516
2432	Plywood plants.....	16	15	1,975	4,181	1,827	3,685	3,397	7,111	14,527	187	2,567	10,554
244	Wooden containers.....	19	10	918	1,814	865	1,722	1,571	2,889	( <sup>2</sup> )	74	1,478	2,327
2444	Wooden boxes.....	10	4	594	1,236	559	1,136	1,062	2,127	4,119	50	648	1,151
249	Miscellaneous wood products..	14	4	662	1,612	549	992	1,130	2,923	( <sup>2</sup> )	94	1,415	4,495
2491	Wood preserving.....	7	3	614	1,523	504	913	1,049	2,800	8,094	87	753	3,367

See footnotes at end of table.



## MANUFACTURES--AREA STATISTICS

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establish- ments, number		All employees		Production workers			Value added by manufacture	Value of shipments	Capital expendi- tures, new	All employees, number	Value added by manufacture
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
								(\$1,000)	(\$1,000)	(\$1,000)			(\$1,000)
25	Furniture and fixtures.....	57	14	2,462	6,184	2,162	4,501	4,685	10,071	(2)	402	2,468	6,484
251	Household furniture.....	41	12	2,273	5,616	2,018	4,221	4,315	9,094	(2)	373	2,364	6,236
2511	Wood furniture, not upholstered	19	11	2,108	5,195	1,889	3,956	4,051	8,309	16,266	357	2,138	5,790
26	Pulp, paper and products...	26	18	6,213	25,521	5,203	10,604	19,569	68,672	(2)	4,994	5,846	36,879
261	Pulp, paper and board.....	7	6	3,586	15,972	3,068	6,501	12,861	51,812	(2)	4,088	(D)	(D)
2612	Paper and paper board mills....	3	3	1,837	8,185	1,541	3,202	6,392	25,505	95,058	1,470	1,543	(D)
267	Paperboard containers.....	13	8	2,095	7,790	1,716	3,144	5,398	10,818	(2)	222	(D)	(D)
2674	Fiber cans, tubes, drums, etc..	3	2	1,435	5,628	1,158	2,055	3,830	7,308	12,200	87	(D)	(D)
27	Printing and publishing....	175	26	2,871	10,008	1,614	3,178	5,510	17,468	(2)	763	2,025	8,994
2711	Newspapers.....	82	14	2,019	7,089	1,017	1,946	3,496	13,271	18,492	515	1,282	6,563
2751	Commercial printing.....	62	8	563	1,862	408	855	1,305	2,685	4,325	212	546	(D)
279	Printing trade services.....	9	3	166	720	145	291	581	1,026	(2)	4	11	(D)
2792	Engraving and plate printing...	3	3	133	576	124	250	481	763	804	...	11	(D)
28	Chemicals and products.....	115	50	19,264	93,021	7,965	16,255	29,320	148,166	(2)	(D)	3,637	16,595
287	Fertilizers.....	48	22	1,449	3,846	1,168	2,456	2,653	7,244	(2)	403	2,320	9,600
288	Vegetable and animal oils....	26	16	732	1,966	592	1,433	1,240	3,251	(2)	793	920	5,061
289	Chemical products, n.e.c.....	11	3	161	748	117	218	337	2,187	(2)	156	46	(D)
2899	Chemical products, n.e.c.....	5	2	108	570	55	86	143	1,664	3,341	41	38	(D)
29	Petroleum and coal products	7	3	159	645	121	186	375	2,008	(2)	297	(D)	(D)
30	Rubber products.....	3	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
31	Leather and leather goods..	6	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	29	143
32	Stone, clay and glass products.....	94	36	4,147	12,368	3,528	7,367	9,489	23,488	(2)	1,838	3,121	10,565
325	Structural clay products.....	17	14	995	2,438	885	2,026	1,921	3,499	(2)	388	999	2,710
327	Concrete and plaster products	58	14	884	2,180	711	1,386	1,479	4,679	9,730	445	722	1,797
3271	Concrete products.....	58	14	884	2,180	711	1,386	1,479	4,679	9,730	445	722	1,797
3281	Cut-stone and stone products.	11	4	180	501	145	281	373	807	1,310	33	179	722
33	Primary metal industries...	11	5	549	1,900	505	1,025	1,626	4,733	(2)	357	766	4,243
34	Fabricated metal products..	56	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	392	1,533
344	Structural metal products....	47	8	828	2,622	612	1,241	1,622	5,075	(2)	249	380	1,428
3441	Structural and ornamental work.	17	5	558	1,881	386	825	1,098	3,804	9,057	219	157	(D)
3444	Sheet-metal work.....	23	1	172	486	139	276	346	795	1,423	15	186	751
35	Machinery, except electri- cal.....	61	22	2,713	8,497	2,279	4,630	6,595	12,842	(2)	777	1,320	(D)
355	Special-industry machinery, n.e.c.....	29	17	2,001	6,340	1,700	3,468	4,947	8,901	(2)	517	1,134	5,468
359	Miscellaneous machinery parts	18	2	174	521	147	303	412	1,044	(2)	65	(D)	(D)
36	Electrical Machinery.....	3	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
37	Transportation equipment...	15	6	468	1,359	391	768	1,122	2,328	(2)	19	990	(D)
371	Motor vehicles and equipment.	6	3	105	355	85	188	268	527	(2)	(D)	195	641
373	Ships and boats.....	9	3	362	1,004	306	580	853	1,800	(2)	(D)	(D)	(D)
38	Instruments and related products.....	6	3	136	313	116	228	228	600	(2)	29	(D)	(D)
39	Miscellaneous manufactures.	37	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	721	1,382
394	Toys and sporting goods.....	7	1	177	490	157	319	353	888	1,469	30	(D)	(D)
3949	Sporting and athletic goods....	7	1	177	490	157	319	353	888	1,469	30	251	(D)
3988	Morticians' goods.....	7	2	236	612	193	378	394	1,162	1,762	(D)	281	(D)

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industries (4-digit) and industry groups (3-digit) are not shown. Industries and industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "all industries" line.<sup>2</sup>The total value of shipments figures for industry groups and a few individual industries have not been published due to the extensive and unmeasurable duplication arising from shipments from one establishment to another in the same industry classification. (See Introduction.)<sup>3</sup>The 1954 and 1947 "all industries" totals are not strictly comparable because of differences in scope between the two years in major groups 20 and 24 (see footnote 4).<sup>4</sup>Comparable data for major groups 20 and 24 are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude establishments in S.I.C. Industry 2411, Logging Camps and Contractors, which are included in the scope of the 1954 Census; the 1947 Census also excludes plants processing and distributing fluid milk which in 1954 were classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
20	Food and kindred products except subgroup 202, Dairy products.....	7,626	41,456	7,480	32,151
24	Lumber and wood products except Industry 2411, Logging camps and contractors.....	15,321	44,998	22,072	59,971

Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUPS: 1954 AND 1947  
(This State contained no standard metropolitan area with 40,000 or more manufacturing employees in 1954 or 1947)

Table 6.—GENERAL STATISTICS FOR PRINCIPAL INDUSTRIAL COUNTIES, BY MAJOR INDUSTRY GROUP: 1954 AND 1947  
(Principal industrial counties include all counties with 20,000 or more manufacturing employees. For explanation of column captions see Introduction)

Code	Major industry group	1954								1947	
		Establish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendit- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
GREENVILLE COUNTY											
	All industries total <sup>1</sup> .....	248	27,349	78,079	24,307	48,950	62,929	124,076	5,557	<sup>2</sup> 26,274	<sup>2</sup> 128,045
20	Food and kindred products.....	40	1,540	4,737	840	1,723	1,913	10,397	716	1,114	6,161
22	Textile mill products.....	38	18,964	54,988	17,658	36,015	47,690	82,235	3,689	20,340	101,954
23	Apparel and related products...	19	3,391	7,520	3,135	5,968	6,122	12,790	268	2,154	8,340
24	Lumber and wood products.....	46	344	683	299	583	546	1,294	118	401	1,379
26	Pulp, paper and products.....	4	346	1,105	305	580	831	1,732	47	280	(D)
27	Printing and publishing.....	24	574	2,020	330	622	1,057	3,750	174	425	2,084
28	Chemicals and products.....	16	271	1,111	167	304	387	2,799	56	267	1,356
34	Fabricated metal products.....	14	188	571	150	284	407	813	78	(D)	(D)
35	Machinery, except electrical....	21	1,469	4,547	1,222	2,442	3,480	7,125	320	990	4,352
SPARTANBURG COUNTY											
	All industries, total <sup>1</sup> .....	149	25,153	68,814	23,181	46,377	59,694	104,607	4,854	<sup>2</sup> 24,340	<sup>2</sup> 113,225
20	Food and kindred products.....	19	730	2,274	386	874	922	4,812	221	796	4,196
22	Textile mill products.....	37	18,887	50,334	18,011	36,034	45,747	71,871	3,391	18,588	84,168
23	Apparel and related products...	8	3,594	10,379	3,193	6,405	8,901	17,514	700	3,405	(D)
24	Lumber and wood products.....	23	361	797	296	478	515	1,130	46	421	(D)
27	Printing and publishing.....	11	268	1,074	163	304	642	1,636	39	218	1,169
28	Chemicals and products.....	15	247	694	203	391	400	1,560	95	231	1,160
34	Fabricated metal products.....	5	246	672	203	414	431	1,048	34	35	(D)
35	Machinery, exc. electrical.....	10	429	1,342	380	771	1,099	1,856	232	168	865

D Withheld to avoid disclosing data for individual companies.

<sup>1</sup>In order to avoid disclosing data for individual companies, the statistics for some industry groups are not shown. Industry groups reporting less than 100 employees are also omitted. They are included, however, in the "All industries" line.

<sup>2</sup>The 1954 and 1947 "All industries" totals are not strictly comparable because of differences in coverage of loggers and fluid milk distributors. See discussion in Introduction and footnote to Table 4 for comparable figures at the State level.

## MANUFACTURES—AREA STATISTICS

Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954

20 Food and kindred products	26 Pulp, paper and products	32 Stone, clay, and glass products	38 Instruments and related products
21 Tobacco manufactures	27 Printing and publishing	33 Primary metal industries	39 Miscellaneous manufactures (Includes Group 19 Ordnance and accessories)
22 Textile mill products	28 Chemicals and products	34 Fabricated metal products	
23 Apparel and related products	29 Petroleum and coal products	35 Machinery, except electrical	
24 Lumber and wood products	30 Rubber products	36 Electrical machinery	
25 Furniture and fixtures	31 Leather and leather goods	37 Transportation equipment	

(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
South Carolina, total.....	2,720	369	5	280	137	1,257	57	26	175	115	7	3	6	94	11	56	61	3	15	6	37
1 to 4 employees.....	990	122	...	15	13	614	19	1	82	22	4	2	2	32	3	20	19	1	4	2	13
5 to 9 employees.....	501	84	...	6	9	257	17	4	41	21	...	...	1	17	3	13	10	1	2	...	15
10 to 19 employees.....	394	64	...	11	11	209	7	3	26	22	...	...	3	9	...	13	10	...	3	1	2
20 to 49 employees.....	307	49	1	22	17	108	7	8	14	32	2	1	...	18	3	5	13	...	3	2	2
50 to 99 employees.....	164	24	3	31	28	38	2	1	5	10	1	...	...	11	...	2	3	...	2	1	2
100 to 249 employees.....	157	24	...	45	36	22	2	2	6	5	...	...	...	4	2	3	3	...	1	...	2
250 to 499 employees.....	98	2	...	59	19	9	2	2	1	...	...	...	...	1	...	...	3	...	...	...	...
500 to 999 employees.....	65	...	...	55	2	...	1	3	...	...	...	...	...	2	...	...	...	1	...	...	1
1,000 to 2,499 employees.....	41	...	1	34	2	...	...	2	...	2	...	...	...	...	...	...	...	...	...	...	...
2,500 employees and over.....	3	...	...	2	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
Abbeville:																					
1 to 19 employees.....	11	3	...	...	5	...	...	2	...	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	4	...	...	2	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	5	...	...	3	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Aiken:																					
1 to 19 employees.....	31	9	...	...	11	1	...	3	3	...	...	...	...	3	...	...	1	...	...	...	...
20 to 99 employees.....	6	1	...	1	1	...	...	1	...	...	...	...	...	2	...	...	...	...	...	...	...
100 employees and over.....	12	...	...	9	1	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Allendale:																					
1 to 19 employees.....	13	2	...	...	4	1	...	2	2	...	...	...	...	...	...	1	1	...	...	...	...
20 to 99 employees.....	3	1	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Anderson:																					
1 to 19 employees.....	61	20	...	4	1	13	3	...	9	...	...	...	...	3	...	2	3	1	...	...	2
20 to 99 employees.....	16	3	...	6	3	...	...	1	...	2	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	33	1	...	25	4	...	...	...	1	...	...	...	...	1	...	...	1	...	...	...	...
Bamberg:																					
1 to 19 employees.....	15	4	...	...	10	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	7	2	...	...	4	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Barnwell:																					
1 to 19 employees.....	12	1	...	...	7	...	...	1	2	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Beaufort:																					
1 to 19 employees.....	14	5	...	...	6	...	...	1	...	...	...	...	...	...	...	...	...	...	2	...	...
20 to 99 employees.....	4	1	...	...	2	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Berkeley:																					
1 to 19 employees.....	26	1	...	...	22	...	...	1	...	...	...	...	...	1	...	...	...	...	1	...	...
20 to 99 employees.....	7	1	...	1	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	4	...	...	...	1	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Calhoun:																					
1 to 19 employees.....	21	3	...	...	1	15	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Charleston:																					
1 to 19 employees.....	90	19	...	1	5	25	4	...	9	4	...	...	1	1	1	8	4	...	2	3	3
20 to 99 employees.....	39	13	...	...	2	6	1	1	2	7	1	1	...	2	...	...	...	...	2	1	...
100 employees and over.....	22	3	1	...	2	4	...	2	2	4	...	...	...	1	1	...	...	...	1	...	...
Cherokee:																					
1 to 19 employees.....	26	3	...	2	1	12	...	...	3	3	...	...	...	2	...	...	...	...	...	...	...
20 to 99 employees.....	7	1	...	1	1	1	...	...	1	...	...	...	...	1	...	...	1	...	...	...	...
100 employees and over.....	9	...	...	8	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Chester:																					
1 to 19 employees.....	36	4	...	1	...	26	1	...	2	1	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	2	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	7	...	...	7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Chesterfield:																					
1 to 19 employees.....	45	4	...	5	1	29	...	...	3	2	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	9	1	...	2	...	5	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	6	...	...	2	3	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Clarendon:																					
1 to 19 employees.....	20	1	...	...	...	16	...	...	1	...	...	...	...	...	...	...	2	...	...	...	...
20 to 99 employees.....	4	...	...	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	3	...	...	...	1	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Colleton:																					
1 to 19 employees.....	45	5	...	...	...	37	...	1	1	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	9	2	...	...	7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Darlington:																					
1 to 19 employees.....	31	3	...	...	...	20	1	...	3	...	...	...	...	3	...	...	1	...	...	...	...
20 to 99 employees.....	12	1	...	3	...	4	...	1	...	3	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	8	...	...	3	1	1	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...
Dillon:																					
1 to 19 employees.....	18	3	...	...	1	11	...	...	2	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	7	1	...	1	...	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Dorchester:																					
1 to 19 employees.....	48	1	...	1	...	40	...	...	3	1	...	...	...	...	...	2	...	...	...	...	...
20 to 99 employees.....	7	1	...	...	2	...	...	...	...	...	...	...	...	1	2	1	...	...	...	...	...
100 employees and over.....	3	...	...	...	2	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...



(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Edgefield:																					
1 to 19 employees.....	32	1	...	...	...	26	...	...	2	...	...	...	...	2	...	1	...	...	...	...	...
20 to 99 employees.....	8	1	...	...	1	5	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	4	...	...	3	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Fairfield:																					
1 to 19 employees.....	71	...	...	...	...	69	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	9	1	...	...	1	5	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...
100 employees and over.....	3	...	...	1	1	...	...	...	...	...	...	3	...	1	...	...	...	...	...	...	...
Florence:																					
1 to 19 employees.....	58	14	...	1	1	25	2	...	5	3	...	...	...	2	...	2	...	...	...	...	...
20 to 99 employees.....	20	3	2	3	3	7	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	6	1	...	...	2	2	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Georgetown:																					
1 to 19 employees.....	57	3	...	...	1	49	...	1	3	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	7	...	...	...	...	6	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	4	...	...	1	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...
Greenville:																					
1 to 19 employees.....	150	25	...	4	4	43	8	1	19	11	...	2	3	3	...	12	10	...	...	...	5
20 to 99 employees.....	51	9	...	5	8	3	1	2	4	5	...	...	...	2	...	2	8	...	1	1	...
100 employees and over.....	47	6	...	29	7	...	...	1	1	...	...	...	...	...	...	...	3	...	...	...	...
Greenwood:																					
1 to 19 employees.....	41	5	...	1	5	21	...	...	2	1	...	...	...	4	...	...	...	...	...	...	2
20 to 99 employees.....	18	3	...	...	2	6	...	...	1	2	...	...	...	2	...	...	2	...	...	...	...
100 employees and over.....	15	1	...	9	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hampton:																					
1 to 19 employees.....	27	4	...	...	...	22	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	3	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Horry:																					
1 to 19 employees.....	76	5	...	...	...	65	1	...	2	...	...	...	...	1	...	2	...	...	...	...	...
20 to 99 employees.....	7	...	...	...	1	5	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	3	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
Jasper:																					
1 to 19 employees.....	12	2	...	...	...	10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	2	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Kershaw:																					
1 to 19 employees.....	44	4	...	...	...	32	...	...	2	1	...	...	...	2	1	1	1	...	...	...	...
20 to 99 employees.....	3	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	5	...	...	3	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Lancaster:																					
1 to 19 employees.....	23	5	...	...	...	13	...	...	2	2	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	8	1	...	...	...	2	...	...	1	3	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	4	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Laurens:																					
1 to 19 employees.....	31	7	...	...	...	17	...	...	5	1	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	8	1	...	...	5	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	9	...	...	6	2	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Lee:																					
1 to 19 employees.....	8	1	...	...	...	5	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	3	...	...	...	...	2	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Lexington:																					

## MANUFACTURES—AREA STATISTICS

Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954—Continued  
 (Counties and size classes in which no manufacturing establishments were reported are omitted)

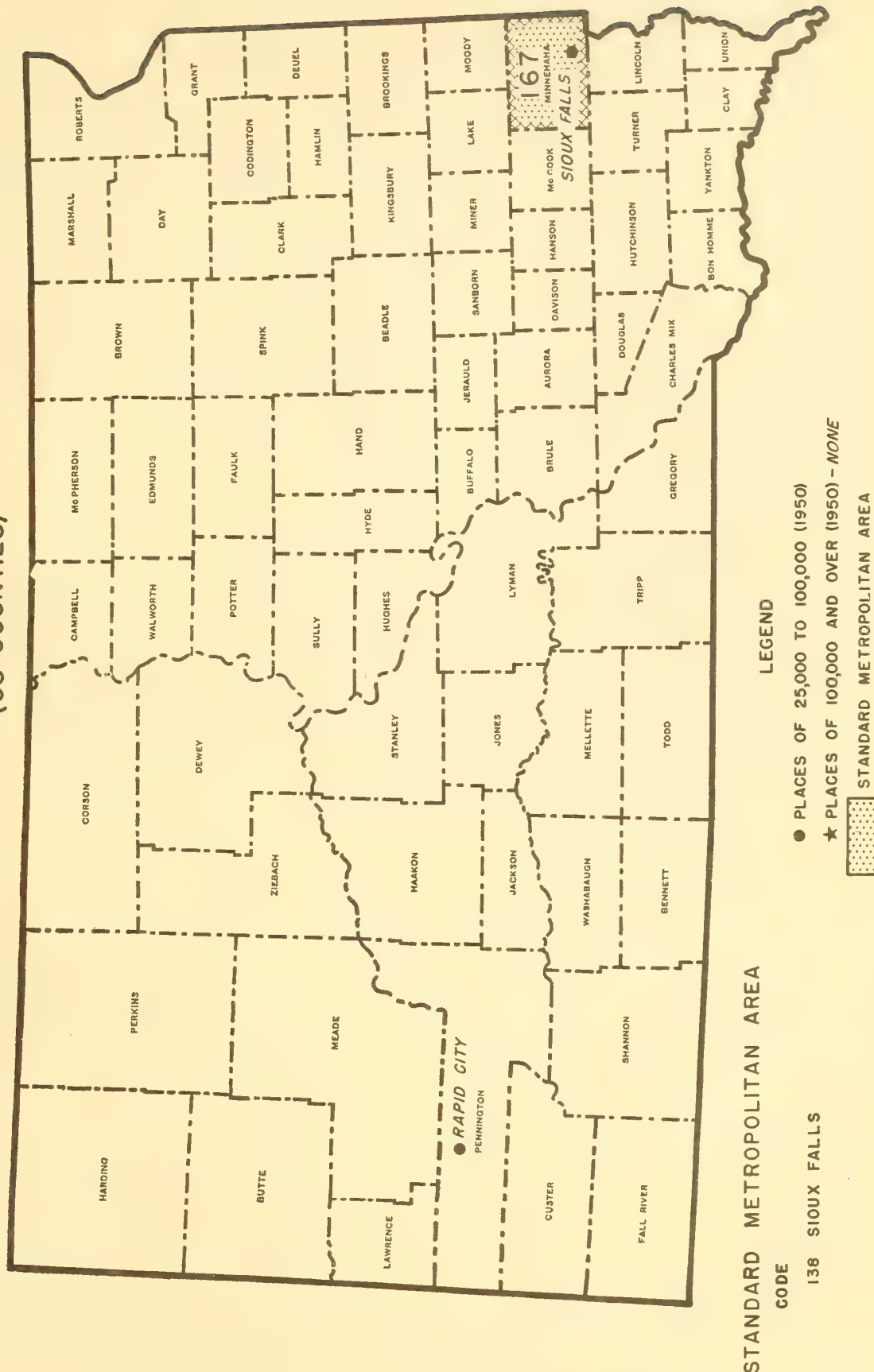
State, county, and size class	Establish- ments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Richland:																					
1 to 19 employees.....	98	14	...	...	5	27	4	...	18	5	3	...	...	4	1	6	4	1	2	...	4
20 to 99 employees.....	31	7	...	1	3	2	...	1	2	5	1	...	...	5	...	1	...	...	...	1	2
100 employees and over.....	18	6	...	2	3	1	...	...	2	...	...	...	...	2	...	1	...	...	...	...	1
Saluda:																					
1 to 19 employees.....	31	2	...	1	...	27	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	2	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Spartanburg:																					
1 to 19 employees.....	83	13	...	4	2	22	4	3	8	10	1	...	1	4	1	2	4	...	1	...	3
20 to 99 employees.....	27	3	...	8	...	...	...	1	2	5	...	...	...	...	1	2	5	...	...	...	...
100 employees and over.....	39	3	...	25	6	1	...	...	1	...	...	...	...	...	1	1	1	...	...	...	...
Sumter:																					
1 to 19 employees.....	39	9	...	1	1	14	2	...	3	3	...	...	...	2	...	2	...	...	...	...	2
20 to 99 employees.....	19	3	...	...	3	7	3	...	1	...	...	...	...	...	...	...	...	...	1	...	1
100 employees and over.....	6	1	...	1	...	2	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...
Union:																					
1 to 19 employees.....	32	3	...	...	...	21	...	...	4	1	...	...	...	2	...	1	...	...	...	...	...
20 to 99 employees.....	5	1	...	2	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	8	...	...	8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Williamsburg:																					
1 to 19 employees.....	29	3	...	...	...	19	...	...	1	2	...	...	...	2	...	...	2	...	...	...	...
20 to 99 employees.....	5	1	...	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
York:																					
1 to 19 employees.....	42	9	...	4	1	17	1	1	2	2	...	...	1	1	...	...	3	...	...	...	...
20 to 99 employees.....	14	2	...	8	1	...	...	...	2	...	...	...	...	...	...	...	...	...	1	...	...
100 employees and over.....	13	...	...	12	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...







# SOUTH DAKOTA (68 COUNTIES)



LEGEND

- PLACES OF 25,000 TO 100,000 (1950)
- ★ PLACES OF 100,000 AND OVER (1950) - NONE
- 167
- 136
- 138
- 140-1

## MANUFACTURES—AREA STATISTICS

Table 1.—MANUFACTURING EMPLOYMENT AT OPERATING ESTABLISHMENTS AND CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARIES FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS

(This table includes data for all manufacturing employees including those located in central administrative offices and auxiliaries. Tables 2-7 in this report include data for operating establishments only. For explanation of column captions see Introduction)

State, standard metropolitan areas, and year <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	(Number)	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
South Dakota:						
1954.....	11,550	41,173	11,531	41,096	19	77
1953 <sup>2</sup> .....	10,441	37,038	10,441	37,038	(3)	(3)
1952 <sup>2</sup> .....	11,554	41,937	11,554	41,937	(3)	(3)
1954						
Standard metropolitan area:						
Sioux Falls <sup>4</sup> .....	5,406	21,691	5,402	21,656	4	35

<sup>1</sup>Employment data for administrative offices and auxiliaries on a State basis are not available for the years prior to 1949. Similar data for standard metropolitan areas are available only for 1954.<sup>2</sup>The employment figures for operating manufacturing establishments for 1952-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period. The employment figures for administrative and auxiliary units were compiled chiefly from Bureau of Old-Age and Survivors Insurance records and are not strictly comparable with the figures for these units that were collected by the Bureau of the Census for the year 1954.<sup>3</sup>Employment at administrative and auxiliary units included with figures for operating manufacturing establishments.<sup>4</sup>The Sioux Falls Standard Metropolitan Area consists of: Minnehaha County, South Dakota.



Table 2.—GENERAL STATISTICS FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Year	Establish- ments, number	All employees		Production workers		Value added by manufacture (\$1,000)
		Number	Payroll (\$1,000)	Number	Wages (\$1,000)	
SOUTH DAKOTA						
1954 <sup>1</sup> .....	546	11,531	41,096	8,414	27,977	77,692
1953 <sup>2</sup> .....	(NA)	10,441	37,038	7,619	26,920	80,703
1952 <sup>2</sup> .....	(NA)	11,554	41,937	9,931	33,625	76,022
1947.....	494	10,265	25,796	8,062	19,193	51,398
1939.....	450	7,327	9,036	5,421	5,905	19,619
1937.....	434	6,251	7,683	4,970	5,485	14,380
1935.....	408	5,538	6,347	4,400	4,308	11,305
1933.....	348	(NA)	(NA)	4,731	4,508	13,760
1931.....	489	(NA)	(NA)	5,373	6,378	18,265
1929.....	615	7,803	10,691	6,535	8,132	22,681
1927.....	472	(NA)	(NA)	5,551	6,786	19,381
1925.....	504	(NA)	(NA)	5,151	6,208	16,491
1923.....	489	(NA)	(NA)	5,146	6,211	13,648
1921.....	574	(NA)	(NA)	4,635	6,350	14,711
1919.....	1,054	6,774	8,773	5,588	6,751	17,070
1914.....	808	4,584	3,463	3,788	2,628	7,059
1909.....	1,020	4,284	2,914	3,602	2,298	6,394
1904.....	686	2,933	1,719	2,492	1,422	4,389
1899.....	624	2,512	1,305	2,224	1,130	3,046
STANDARD METROPOLITAN AREAS (None with 40,000 or more manufacturing employees in this State)						

NA Not available.

<sup>1</sup>The 1954 figures include data for establishments engaged in the processing and distribution of fluid milk, Industry Group 202, Dairy Products. These establishments were not included in the figures for the Annual Survey years 1952-1953 or earlier Census years. In addition, the 1954 Census and Annual Survey years include data for Logging camps and contractors, Industry 2411, which were not included within the scope of the 1947 Census. See footnotes to Table 4 for comparable 1954 and 1947 totals. There were also a number of changes in the definition of manufacturing industries during earlier Census years that affect the comparability of the historical series. Among the more important of these were: figures for 1935 and later years exclude data for "Railroad repair shops" and "Manufactured gas" which were included in 1899-1933 figures; the minimum size of establishment included for 1954 and 1947 was one employee, for 1939-1921 manufacturing establishments reporting value of shipments of \$5,000 or more were within scope whereas for 1919 and earlier years the cutoff was \$500. (This change in procedure has not appreciably affected the comparability of the historical data except for the figures on number of establishments.)

<sup>2</sup>The employment and payroll figures for operating manufacturing establishments for 1952-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments.

The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period.

## MANUFACTURES--AREA STATISTICS

Table 3.--GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947

(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
South Dakota, total.....	652,740	546	11,531	41,096	8,414	17,990	27,977	77,692	3,444	( <sup>1</sup> )	( <sup>1</sup> )
STANDARD METROPOLITAN AREAS											
Sioux Falls.....	70,910	81	5,402	21,656	3,848	8,422	14,400	44,511	1,436	4,804	27,462
COUNTIES											
Aurora.....	5,020	3	18	42	14	28	33	79	5	16	60
Beadle.....	21,082	16	541	(D)	423	(D)	(D)	(D)	(D)	660	(D)
Bennett.....	3,396	3	11	(D)	8	(D)	(D)	(D)	(D)	25	(D)
Bon Homme.....	9,440	5	16	25	12	20	19	137	(D)	13	40
Brookings.....	17,851	12	91	217	63	129	159	417	29	70	298
Brown.....	32,617	34	707	2,499	469	1,020	1,508	4,393	190	662	2,958
Brule.....	6,076	3	21	65	12	26	42	102	29	18	58
Buffalo.....	1,615	...	...	...	...	...	...	...	...	...	...
Butte.....	8,161	11	204	667	167	357	535	558	103	168	514
Campbell.....	4,046	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...	...
Charles Mix.....	15,558	9	17	23	10	19	16	90	...	22	100
Clark.....	8,369	4	18	31	14	18	23	56	(D)	(D)	(D)
Clay.....	10,993	7	59	173	38	91	105	370	53	25	92
Codington.....	18,944	22	768	2,661	561	1,160	1,796	4,291	251	619	3,749
Corson.....	6,168	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Custer.....	5,517	24	163	446	151	267	395	714	27	213	765
Davison.....	16,522	23	472	1,627	327	662	956	1,975	94	458	2,367
Day.....	12,294	7	79	220	48	106	133	465	12	108	460
Deuel.....	7,689	5	15	40	13	28	36	43	8	18	111
Dewey <sup>2</sup> .....	4,968	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...	...
Douglas.....	5,636	3	6	(D)	4	(D)	(D)	(D)	(D)	(D)	(D)
Edmunds.....	7,275	6	38	114	29	53	75	190	15	14	(D)
Fall River.....	10,439	5	23	60	16	32	43	149	8	13	42
Faulk.....	4,752	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Grant.....	10,233	11	215	731	175	368	566	1,312	128	44	181
Gregory.....	8,556	7	53	164	31	60	69	271	14	14	46
Haakon.....	3,167	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Hamlin.....	7,058	7	56	131	47	100	113	236	(D)	34	124
Hand.....	7,149	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Hanson.....	4,896	4	10	21	7	14	16	39	(D)	11	33
Harding.....	2,289	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Hughes.....	8,111	6	54	168	45	114	146	307	22	34	152
Hutchinson.....	11,423	14	88	214	65	136	162	1,077	38	64	369
Hyde.....	2,811	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Jackson.....	1,768	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...	...
Jerauld.....	4,476	4	18	39	13	28	27	210	(D)	20	(D)
Jones.....	2,281	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...	...
Kingsbury.....	9,962	9	33	95	26	56	71	205	12	44	105
Lake.....	11,792	8	229	654	200	449	577	1,210	6	55	(D)
Lawrence.....	16,648	22	381	1,234	314	664	964	1,965	62	232	736
Lincoln.....	12,767	4	30	91	20	43	65	177	33	72	204
Lyman.....	4,572	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
McCook.....	8,828	9	19	26	14	24	24	75	4	15	35
McPherson.....	7,071	4	11	31	8	17	25	41	...	15	53
Marshall.....	7,835	4	20	51	14	37	36	91	(D)	13	27
Meade.....	11,516	9	56	149	47	124	138	319	20	76	216
Mellette.....	3,046	...	...	...	...	...	...	...	...	(D)	(D)
Miner.....	6,268	3	14	(D)	9	(D)	(D)	(D)	(D)	14	(D)
Minnehaha.....	70,910	81	5,402	21,656	3,848	8,422	14,400	44,511	1,436	4,804	27,462
Moody.....	9,252	3	15	26	12	16	21	40	(D)	19	(D)
Pennington.....	34,053	48	913	3,131	653	1,365	2,032	5,101	406	914	4,490
Perkins.....	6,776	7	34	62	26	46	50	88	8	38	132
Potter.....	4,688	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	10	26
Roberts.....	14,929	9	129	289	116	316	264	721	46	80	358
Sanborn.....	5,142	3	12	(D)	11	(D)	(D)	(D)	(D)	12	(D)
Shannon.....	5,669	...	...	...	...	...	...	...	...	...	...
Spink.....	12,204	4	43	(D)	25	(D)	(D)	(D)	(D)	22	94
Stanley.....	2,055	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Sully.....	2,713	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...	...
Todd.....	4,758	...	...	...	...	...	...	...	...	(D)	(D)
Tripp.....	9,139	7	61	117	48	87	85	184	7	110	(D)
Turner.....	12,100	6	39	104	30	59	68	237	8	32	146

See footnotes at end of table.

Table 3.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture	Capital expendi- tures, new	All employees, number	Value added by manu- facture
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
Union.....	10,792	8	41	116	32	66	87	242	9	47	387
Walworth.....	7,648	8	39	80	25	44	50	214	7	49	203
Washabaugh.....	1,551	...	...	...	...	...	...	...	...	...	...
Yankton.....	16,804	17	182	421	115	260	243	583	45	208	749
Ziebach.....	2,606	....	...	...	...	...	...	...	...	...	..
CITIES WITH 10,000 INHABITANTS OR MORE											
Aberdeen.....	21,051	26	587	2,028	374	814	1,191	3,675	147	473	(D)
Huron.....	12,788	14	175	563	121	210	342	1,096	77	(D)	(D)
Mitchell.....	12,123	19	445	1,528	309	608	895	1,796	80	401	(D)
Rapid City.....	25,310	34	827	2,842	584	1,213	1,824	4,621	289	699	3,469
Sioux Falls.....	52,696	65	5,218	21,020	3,706	8,105	13,976	43,111	1,386	4,746	2,475
Watertown.....	12,699	19	738	(D)	535	(D)	(D)	(D)	(D)	565	3,421

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>The 1947 data are not strictly comparable with the figures shown for 1954 due to differences in coverage of loggers and fluid milk distributors. See discussion in Introduction and footnotes to Table 4.

<sup>2</sup>Armstrong county was combined with Dewey county.



## MANUFACTURES—AREA STATISTICS

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establish- ments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
	All industries, total <sup>1</sup> ...	546	92	11,531	41,096	8,414	17,990	27,977	77,692	( <sup>2</sup> )	3,444	( <sup>3</sup> )	( <sup>3</sup> )
20	Food and kindred products..	218	53	7,791	28,417	5,648	12,375	19,371	56,713	( <sup>2</sup> )	2,194	( <sup>3</sup> )	( <sup>3</sup> )
201	Meat products.....	25	11	4,225	17,110	3,241	7,309	12,840	35,194	( <sup>2</sup> )	706	4,166	21,998
202	Dairy products.....	101	17	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2021	Creamery butter.....	41	5	504	1,237	389	823	876	3,120	20,643	147	( <sup>3</sup> )	( <sup>3</sup> )
2027	Fluid milk and other products..	37	10	566	1,791	323	728	912	3,281	11,562	418	( <sup>3</sup> )	( <sup>3</sup> )
204	Grain mill products.....	14	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2042	Prepared animal feeds.....	11	2	173	770	107	237	334	1,359	5,983	101	(D)	(D)
205	Bakery products.....	42	10	1,091	3,583	698	1,431	2,000	6,341	( <sup>2</sup> )	287	967	4,626
208	Beverages.....	23	5	269	921	149	294	422	1,618	2,788	107	(D)	(D)
2081	Bottled soft drinks.....	23	5	269	921	149	294	422	1,618	2,788	107	231	1,004
209	Miscellaneous foods.....	11	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2099	Food preparations, n.e.c.....	8	4	241	451	223	427	394	808	5,209	7	(D)	(D)
23	Apparel and related prod- ucts.....	5	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
24	Lumber and wood products...	69	7	865	2,525	767	1,600	2,105	3,374	( <sup>2</sup> )	137	( <sup>3</sup> )	( <sup>3</sup> )
242	Lumber and basic of products.	31	3	536	1,549	499	1,032	1,383	2,108	( <sup>2</sup> )	59	(D)	(D)
243	Millwork and related products	16	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2431	Millwork plants.....	14	1	122	420	83	172	247	486	940	3	426	1,311
25	Furniture and fixtures.....	4	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...	...
26	Pulp, paper and products...	1	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
27	Printing and publishing....	158	14	1,441	4,988	881	1,717	2,814	8,236	( <sup>2</sup> )	573	1,152	5,566
2711	Newspapers.....	113	10	1,045	3,559	647	1,281	2,141	6,207	8,555	473	805	4,227
2751	Commercial printing.....	23	2	248	909	155	306	444	1,019	1,537	42	251	761
28	Chemicals and products.....	12	1	108	397	89	175	299	603	( <sup>2</sup> )	(D)	218	1,644
30	Rubber products.....	4	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...	...
32	Stone, clay and glass prod- ucts.....	29	7	387	1,295	298	632	923	2,519	( <sup>2</sup> )	258	349	1,646
327	Concrete and plaster products	24	4	201	625	141	296	393	1,349	( <sup>2</sup> )	155	(D)	(D)
33	Primary metal industries...	1	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
34	Fabricated metal products..	13	5	389	1,527	289	552	979	3,235	( <sup>2</sup> )	172	103	880
35	Machinery, except electri- cal.....	15	3	289	1,155	235	530	881	1,742	( <sup>2</sup> )	36	472	2,398
37	Transportation equipment...	4	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
39	Miscellaneous manufactures.	13	...	101	321	83	167	245	557	( <sup>2</sup> )	34	76	370

NOTE: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industries (4-digit) and industry groups (3-digit) are not shown. Industries and industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "all industries" line.<sup>2</sup>The total value of shipments figures for industry groups and a few individual industries have not been published due to the extensive and unmeasurable duplication arising from shipments from one establishment to another in the same industry classification. (See Introduction.)<sup>3</sup>Comparable data are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude establishments in S.I.C. Industry 2411, Logging Camps and Contractors, which are included in the scope of the 1954 Census; the 1947 Census also excludes plants processing and distributing fluid milk which in 1954 were classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	All industries except subgroups 202 and 2411, total.....	10,075	68,805	9,672	48,126
20	Food and kindred products except subgroup 202, Dairy products.....	6,400	48,000	6,234	31,974
24	Lumber and wood products except Industry 2411, Logging camps and contractors.....	800	3,200	994	3,506

Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUPS: 1954 AND 1947

(This State contained no standard metropolitan area with 40,000 or more manufacturing employees in 1954 or 1947)

Table 6.—GENERAL STATISTICS FOR PRINCIPAL INDUSTRIAL COUNTIES (THOSE WITH 20,000 OR MORE MANUFACTURING EMPLOYEES), BY MAJOR INDUSTRY GROUPS: 1954 AND 1947

(This State contained no county with 20,000 or more manufacturing employees in 1954 and 1947)

Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954

20 Food and kindred products	26 Pulp, paper and products	32 Stone, clay, and glass products	38 Instruments and related products
21 Tobacco manufactures	27 Printing and publishing	33 Primary metal industries	39 Miscellaneous manufactures (includes Group 19 Ordnance and accessories)
22 Textile mill products	28 Chemicals and products	34 Fabricated metal products	
23 Apparel and related products	29 Petroleum and coal products	35 Machinery, except electrical	
24 Lumber and wood products	30 Rubber products	36 Electrical machinery	
25 Furniture and fixtures	31 Leather and leather goods	37 Transportation equipment	

(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
South Dakota, total.....	546	218	...	...	5	69	4	1	158	12	...	4	...	29	1	13	15	...	...	4	13
1 to 4 employees.....	255	80	...	...	4	39	1	1	92	5	...	4	...	12	...	3	7	...	2	...	5
5 to 9 employees.....	125	45	...	...	1	15	1	...	45	1	...	...	...	5	1	3	4	...	...	...	4
10 to 19 employees.....	74	40	...	...	...	8	...	...	7	5	...	...	...	5	...	2	1	...	2	...	4
20 to 49 employees.....	51	29	...	...	...	4	2	...	8	1	...	...	...	5	...	1	1	...	...	...	...
50 to 99 employees.....	25	13	...	...	...	1	...	...	5	...	...	...	...	2	...	3	1	...	...	...	...
100 to 249 employees.....	14	9	...	...	...	2	...	...	1	...	...	...	...	...	...	1	1	...	...	...	...
250 to 499 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2,500 employees and over.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Aurora:																					
1 to 19 employees.....	3	1	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
Beadle:																					
1 to 19 employees.....	12	4	...	...	...	1	...	...	3	1	...	1	...	1	...	...	1	...	...	...	...
20 to 99 employees.....	3	2	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Bennett:																					
1 to 19 employees.....	3	2	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Bon Homme:																					
1 to 19 employees.....	5	2	...	...	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...
Brookings:																					
1 to 19 employees.....	11	6	...	...	...	...	...	...	3	...	...	...	...	...	...	...	1	...	1	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Brown:																					
1 to 19 employees.....	25	10	...	...	...	3	...	...	6	...	...	2	...	1	...	1	2	...	...	...	...
20 to 99 employees.....	8	4	...	...	...	1	...	...	2	...	...	...	...	...	...	...	1	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
Brule:																					
1 to 19 employees.....	3	2	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Butte:																					
1 to 19 employees.....	9	4	...	...	...	1	...	...	3	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Campbell:																					
1 to 19 employees.....	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Charles Mix:																					
1 to 19 employees.....	9	2	...	...	...	2	...	...	5	...	...	...	...	...	...	...	...	...	...	...	...
Clark:																					
1 to 19 employees.....	4	2	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...
Clay:																					
1 to 19 employees.....	6	1	...	...	...	...	...	...	3	...	...	...	...	1	...	1	...	...	...	...	...
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Codington:																					
1 to 19 employees.....	14	6	...	...	...	1	...	...	3	1	...	...	...	1	1	...	...	...	1	...	...
20 to 99 employees.....	6	4	...	...	...	...	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Corson:																					
1 to 19 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Custer:																					
1 to 19 employees.....	23	1	...	...	...	19	...	...	1	...	...	...	...	1	...	1	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Davison:																					
1 to 19 employees.....	17	7	...	...	...	1	...	...	4	3	...	1	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	5	3	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Day:																					
1 to 19 employees.....	6	5	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Deuel:																					
1 to 19 employees.....	5	3	...	...	...	...	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...
Dewey:																					
1 to 19 employees.....	2	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
Douglas:																					
1 to 19 employees.....	3	1	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
Edmunds:																					
1 to 19 employees.....	6	2	...	...	...	...	...	...	2	...	...	...	...	...	...	1	...	...	...	...	1
Fall River:																					
1 to 19 employees.....	5	3	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
Faulk:																					
1 to 19 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Grant:																					
1 to 19 employees.....	8	4	...	...	...	...	...	...	3	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	3	1	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...
Gregory:																					
1 to 19 employees.....	6	2	...	...	...	...	...	...	3	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Haakon:																					
1 to 19 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Hamlin:																					
1 to 19 employees.....	6	4	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hand:																					
1 to 19 employees.....	2	...	...	...	...	...	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...

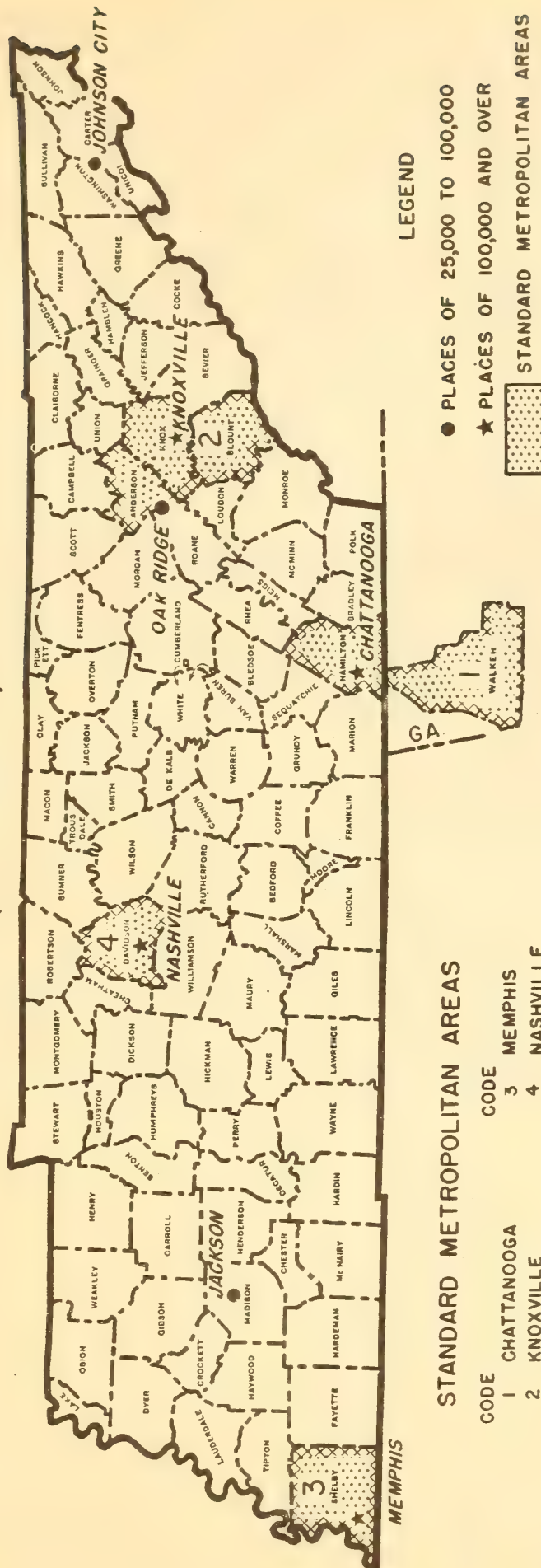
## MANUFACTURES—AREA STATISTICS

Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954—Continued  
(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establish- ments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Hanson:																					
1 to 19 employees.....	4	1	...	...	...	...	...	...	2	...	...	...	...	1	...	...	...	...	...	...	...
Harding:																					
1 to 19 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Hughes:																					
1 to 19 employees.....	6	2	...	...	...	1	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...
Hutchinson:																					
1 to 19 employees.....	13	6	...	...	...	2	...	...	4	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hyde:																					
1 to 19 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Jackson:																					
1 to 19 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Jerauld:																					
1 to 19 employees.....	4	2	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
Jones:																					
1 to 19 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Kingsbury:																					
1 to 19 employees.....	9	3	...	...	...	...	...	...	3	1	...	...	...	1	...	...	...	...	...	...	...
Lake:																					
1 to 19 employees.....	5	3	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...
20 to 99 employees.....	3	2	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Lawrence:																					
1 to 19 employees.....	18	6	...	...	...	9	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	3	1	...	...	...	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Lincoln:																					
1 to 19 employees.....	4	1	...	...	...	...	...	...	2	...	...	...	...	1	...	...	...	...	...	...	...
Lyman:																					
1 to 19 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
McCook:																					
1 to 19 employees.....	9	4	...	...	1	...	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...
McPherson:																					
1 to 19 employees.....	4	2	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
Marshall:																					
1 to 19 employees.....	4	3	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Meade:																					
1 to 19 employees.....	8	3	...	...	...	2	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Miner:																					
1 to 19 employees.....	3	1	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
Minnehaha:																					
1 to 19 employees.....	51	14	...	...	2	5	...	1	13	2	...	...	...	...	...	2	5	...	2	...	5
20 to 99 employees.....	22	10	...	...	...	...	2	...	2	1	...	...	...	2	...	4	1	...	...	...	...
100 employees and over.....	8	6	...	...	...	...	...	...	1	...	...	...	...	...	...	1	...	...	...	...	...
Moody:																					
1 to 19 employees.....	3	2	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Pennington:																					
1 to 19 employees.....	38	7	...	...	2	12	...	...	7	2	...	...	...	3	...	1	...	...	...	...	4
20 to 99 employees.....	9	7	...	...	...	...	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Perkins:																					
1 to 19 employees.....	7	3	...	...	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...
Potter:																					
1 to 19 employees.....	2	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Roberts:																					
1 to 19 employees.....	8	5	...	...	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sanborn:																					
1 to 19 employees.....	3	2	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Spink:																					
1 to 19 employees.....	3	1	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Stanley:																					
1 to 19 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Sully:																					
1 to 19 employees.....	2	...	...	...	...	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Tripp:																					
1 to 19 employees.....	6	4	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Turner:																					
1 to 19 employees.....	6	2	...	...	...	...	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...
Union:																					
1 to 19 employees.....	8	1	...	...	...	1	2	...	2	...	...	...	...	1	...	...	1	...	...	...	...
Walworth:																					
1 to 19 employees.....	8	4	...	...	...	...	...	...	3	...	...	...	...	1	...	...	...	...	...	...	...
Yankton:																					
1 to 19 employees.....	15	7	...	...	...	1	...	...	4	1	...	...	...	1	...	1	...	...	...	...	...
20 to 99 employees.....	2	...	...	...	...	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...



# TENNESSEE (95 COUNTIES)



## MANUFACTURES—AREA STATISTICS

Table 1.—MANUFACTURING EMPLOYMENT AT OPERATING ESTABLISHMENTS AND CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARIES FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS

(This table includes data for all manufacturing employees including those located in central administrative offices and auxiliaries. Tables 2-7 in this report include data for operating establishments only. For explanation of column captions see Introduction)

State, standard metropolitan areas, and year <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	(Number)	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
Tennessee:						
1954.....	267,496	882,644	260,599	850,175	6,897	32,469
1953 <sup>2</sup> .....	275,276	903,478	272,617	891,674	2,659	11,804
1952 <sup>2</sup> .....	261,662	799,101	258,279	788,677	<sup>3</sup> 3,383	<sup>3</sup> 10,424
1951 <sup>2</sup> .....	240,987	666,628	237,604	656,204	3,383	10,424
1950 <sup>2</sup> .....	226,372	585,306	222,990	576,346	3,382	8,960
1949 <sup>2</sup> .....	216,700	517,817	213,090	507,329	3,610	10,488
1954						
Standard metropolitan areas:						
Chattanooga area <sup>4</sup> .....	43,019	145,186	42,759	143,569	260	1,617
Knoxville area <sup>5</sup> .....	34,002	120,099	33,903	119,668	99	431
Memphis area <sup>6</sup> .....	42,512	156,720	41,804	152,582	708	4,138
Nashville area <sup>7</sup> .....	32,691	110,612	30,499	104,061	2,192	6,551

<sup>1</sup>Employment data for administrative offices and auxiliaries on a State basis are not available for the years prior to 1949. Similar data for standard metropolitan areas are available only for 1954.<sup>2</sup>The employment figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period. The employment figures for administrative and auxiliary units were compiled chiefly from Bureau of Old-Age and Survivors Insurance records and are not strictly comparable with the figures for these units that were collected by the Bureau of the Census for the year 1954.<sup>3</sup>The 1951 data are shown for 1952 since auxiliary and administrative unit data were not collected in 1952.<sup>4</sup>The Chattanooga Standard Metropolitan Area consists of Hamilton County, Tennessee and Walker County, Georgia.<sup>5</sup>The Knoxville Standard Metropolitan Area consists of Anderson, Blount, and Knox Counties, Tennessee.<sup>6</sup>The Memphis Standard Metropolitan Area consists of Shelby County, Tennessee.<sup>7</sup>The Nashville Standard Metropolitan Area consists of Davidson County, Tennessee.

Table 2.—GENERAL STATISTICS FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Year	Establish- ments, number	All employees		Production workers		Value added by manufacture (\$1,000)
		Number	Payroll (\$1,000)	Number	Wages (\$1,000)	
		TENNESSEE				
1954 <sup>1</sup> .....	4,058	260,599	850,175	214,027	612,461	1,678,786
1953 <sup>2</sup> .....	(NA)	272,617	891,674	228,422	666,619	1,685,237
1952 <sup>2</sup> .....	(NA)	258,279	788,677	216,164	585,140	1,469,462
1951 <sup>2</sup> .....	(NA)	237,604	656,204	203,826	503,702	1,294,384
1950 <sup>2</sup> .....	(NA)	222,990	576,346	192,368	446,577	1,174,446
1949 <sup>2</sup> .....	(NA)	213,090	507,329	183,631	400,571	981,069
1947.....	3,345	222,300	474,978	193,197	371,637	961,385
1939.....	2,225	152,179	149,525	131,024	108,828	318,378
1937.....	2,083	148,432	136,489	135,073	109,248	295,627
1935.....	1,991	123,436	103,261	112,434	81,246	218,537
1933.....	1,561	(NA)	(NA)	94,909	60,871	172,939
1931.....	1,948	(NA)	(NA)	92,660	74,056	212,460
1929.....	2,855	142,020	149,080	128,400	115,877	322,898
1927.....	2,098	(NA)	(NA)	114,968	101,198	262,604
1925.....	2,162	(NA)	(NA)	107,645	95,255	243,391
1923.....	2,307	(NA)	(NA)	106,504	92,482	221,154
1921.....	2,245	(NA)	(NA)	75,446	65,741	148,087
1919.....	4,426	107,725	105,861	94,564	80,687	210,201
1914.....	4,762	83,322	44,875	74,327	33,048	88,567
1909.....	4,609	82,257	37,438	73,840	28,252	76,201
1904.....	3,175	65,482	27,886	60,572	22,806	58,609
1899.....	3,116	49,292	17,775	45,963	14,728	38,190
		CHATTANOOGA STANDARD METROPOLITAN AREA				
1954 <sup>1</sup> .....	410	42,759	143,569	35,724	107,515	277,314
1947.....	(NA)	38,193	(NA)	(NA)	(NA)	149,104
		MEMPHIS STANDARD METROPOLITAN AREA				
1954 <sup>1</sup> .....	632	41,804	152,582	32,310	103,324	336,167
1947.....	(NA)	36,042	(NA)	(NA)	(NA)	202,438

NA Not available.

<sup>1</sup>The 1954 figures include data for establishments engaged in the processing and distribution of fluid milk, Industry Group 202, Dairy Products. These establishments were not included in the figures for the Annual Survey years 1949-1953 or earlier Census years. In addition, the 1954 Census and Annual Survey years include data for Logging camps and contractors, Industry 2411, which were not included within the scope of the 1947 Census. See footnotes to Table 4 for comparable 1954 and 1947 totals. There were also a number of changes in the definition of manufacturing industries during earlier Census years that affect the comparability of the historical series. Among the more important of these were: figures for 1935 and later years exclude data for "Railroad repair shops" and "Manufactured gas" which were included in 1899-1933 figures; the minimum size of establishment included for 1954 and 1947 was one employee, for 1939-1921 manufacturing establishments reporting value of shipments of \$5,000 or more were within scope whereas for 1919 and earlier years the cut-off was \$500. (This change in procedure has not appreciably affected the comparability of the historical data except for the figures on number of establishments.)

<sup>2</sup>The employment and payroll figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period.



## MANUFACTURES--AREA STATISTICS

Table 3.--GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
Tennessee, total.....	3,291,718	4,058	260,599	850,175	214,027	418,378	612,461	1,678,786	152,698	122,300	196,185
STANDARD METROPOLITAN AREAS											
Chattanooga area, total.....	246,453	410	42,759	143,569	35,724	69,907	107,515	277,314	33,496	38,193	149,104
Portion in Tennessee.....	208,255	365	37,066	128,447	30,552	59,292	94,791	250,889	32,158	33,184	128,851
Portion in Georgia.....	38,198	45	5,693	15,122	5,172	10,615	12,724	26,425	1,338	5,009	20,253
Knoxville area.....	337,105	346	33,903	119,668	27,472	53,515	86,146	230,105	11,719	31,193	(D)
Memphis area.....	482,393	632	41,804	152,582	32,310	65,441	103,324	336,167	31,773	36,042	202,438
Nashville area.....	321,758	462	30,499	104,061	23,295	47,021	69,742	203,655	11,025	29,841	131,871
COUNTIES											
Anderson.....	59,407	23	5,997	27,523	4,399	8,801	18,447	59,705	246	1,079	3,356
Bedford.....	23,627	47	2,301	5,087	2,092	3,953	4,208	9,680	1,417	2,832	11,096
Benton.....	11,495	8	147	262	137	237	229	267	9	63	112
Bledsoe.....	8,561	24	103	120	97	117	113	204	15	183	209
Blount.....	54,691	44	7,314	(D)	6,128	(D)	(D)	(D)	(D)	10,209	(D)
Bradley.....	32,338	69	4,143	10,931	3,652	7,325	8,111	21,105	1,367	3,622	14,788
Campbell.....	34,369	25	299	675	265	485	535	1,058	58	405	1,053
Cannon.....	9,174	8	981	1,603	941	1,876	1,470	3,089	36	234	(D)
Carroll.....	26,553	25	1,722	3,108	1,642	3,061	2,807	3,949	71	877	1,684
Carter.....	42,432	38	4,060	14,123	3,204	5,979	9,311	24,467	5,499	6,020	(D)
Cheatham.....	9,167	6	192	310	181	314	277	167	7	39	118
Chester.....	11,149	11	379	525	367	586	487	983	4	351	(D)
Claiborne.....	24,788	18	84	119	68	78	93	300	10	44	74
Clay.....	8,701	7	22	35	19	32	32	65	(D)	108	165
Cooke.....	22,991	19	743	1,922	669	1,347	1,626	4,545	85	663	3,885
Coffee.....	23,049	41	2,158	4,578	1,992	3,735	4,054	9,288	181	1,989	7,492
Crockett.....	16,624	5	146	(D)	127	(D)	(D)	(D)	(D)	100	215
Cumberland.....	18,877	22	267	562	241	479	470	719	150	202	523
Davidson.....	321,758	462	30,499	104,061	23,295	47,021	69,742	203,655	11,025	29,841	131,871
Decatur.....	9,442	12	(D)	(D)	(D)	(D)	(D)	(D)	(D)	477	(D)
Dekalb.....	11,680	9	778	1,324	753	1,370	1,261	2,381	41	83	(D)
Dickson.....	18,805	25	1,104	2,098	1,054	1,871	1,882	2,380	50	755	1,670
Dyer.....	33,473	29	1,232	2,925	1,084	2,083	2,312	4,949	326	1,135	4,183
Fayette.....	27,535	11	89	142	83	151	129	194	14	45	146
Fentress.....	14,917	35	203	284	188	275	254	549	22	133	368
Franklin.....	25,431	29	1,112	2,674	948	1,729	2,144	6,404	176	1,165	3,475
Gibson.....	48,132	44	6,655	22,432	6,115	11,109	17,474	30,163	980	2,503	7,273
Giles.....	26,961	21	1,032	2,334	971	1,823	2,131	5,172	93	1,111	4,465
Grainger.....	13,086	12	68	89	62	85	76	143	19	74	(D)
Greene.....	41,048	33	2,433	7,314	1,983	4,034	5,405	22,120	1,148	1,154	4,998
Grundy.....	12,558	28	248	419	222	408	151	1,104	63	97	268
Hamblen.....	23,976	50	4,359	13,502	3,532	7,618	9,767	31,735	1,627	1,989	6,115
Hamilton.....	208,255	365	37,066	128,447	30,552	59,292	94,791	250,889	32,158	33,184	128,851
Hancock.....	9,116	7	27	33	25	39	30	73	3	(D)	(D)
Hardeman.....	23,311	29	459	(D)	429	(D)	(D)	(D)	(D)	115	298
Hardin.....	16,908	30	1,053	1,959	1,020	1,763	1,865	3,163	85	799	2,062
Hawkins.....	30,494	17	345	1,218	306	590	1,016	1,816	238	382	1,824
Haywood.....	26,212	11	269	469	250	428	413	952	24	161	443
Henderson.....	17,173	19	526	802	493	819	692	1,212	47	280	463
Henry.....	23,828	39	1,165	2,748	1,023	1,856	2,179	5,719	93	647	1,645
Hickman.....	13,353	16	623	1,567	514	1,086	1,288	2,799	146	759	(D)
Houston.....	5,318	14	204	345	187	269	275	413	29	80	148
Humphreys.....	11,030	21	251	448	242	420	425	605	17	327	699
Jackson.....	12,348	9	114	(D)	105	(D)	(D)	(D)	(D)	316	732
Jefferson.....	19,667	21	837	1,882	761	1,573	1,499	4,136	122	543	1,111
Johnson.....	12,278	14	52	52	45	56	50	85	18	49	67
Knox.....	223,007	279	20,592	62,289	16,945	32,860	44,476	104,594	4,667	19,905	74,962
Lake.....	11,655	9	151	428	126	334	304	1,061	38	346	1,353
Lauderdale.....	25,047	21	423	695	391	613	581	1,138	45	319	609
Lawrence.....	28,818	40	1,077	1,938	987	1,847	1,692	3,645	56	842	2,551
Lewis.....	6,078	11	315	674	295	578	623	1,757	98	537	(D)
Lincoln.....	25,624	17	890	2,124	822	1,636	1,835	4,082	271	652	2,220
London.....	23,182	28	2,559	5,481	2,357	4,521	4,645	7,879	342	1,576	3,429
McMinn.....	32,024	76	3,310	8,448	2,934	5,583	6,645	14,249	22,311	2,265	7,293
McNairy.....	20,390	28	794	1,572	773	1,277	1,431	3,132	51	423	(D)
Macon.....	13,599	20	521	932	492	943	847	2,497	58	293	760
Madison.....	60,128	61	3,405	8,935	2,864	5,594	6,899	13,804	492	3,128	15,166
Marion.....	20,520	25	777	1,894	708	1,326	1,648	3,913	78	964	3,345
Marshall.....	17,768	32	2,096	5,677	1,759	3,460	4,400	11,841	684	1,942	6,532
Maury.....	40,368	46	3,647	12,888	3,072	6,080	9,874	29,897	2,575	2,512	14,278

See footnotes at end of table.

Table 3.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947--Continued  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
Meigs.....	6,080	10	45	68	40	62	61	116	4	60	115
Monroe.....	24,513	43	1,280	2,673	1,225	2,475	2,461	5,220	178	671	1,996
Montgomery.....	44,186	38	2,099	6,320	1,759	3,207	4,518	13,579	1,457	2,151	7,053
Moore.....	3,948	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	120	(D)
Morgan.....	15,727	41	245	328	231	372	288	492	34	266	506
Obion.....	29,056	29	1,504	3,470	1,371	2,455	2,961	6,901	802	1,575	5,472
Overton.....	17,566	27	1,280	1,737	1,212	2,023	1,536	2,076	43	456	968
Perry.....	6,462	10	205	331	203	340	318	351	5	117	248
Pickett.....	5,093	8	387	746	380	753	704	987	62	53	(D)
Polk.....	14,074	13	676	(D)	599	(D)	(D)	(D)	(D)	672	(D)
Putnam.....	29,869	49	1,504	2,795	1,357	2,528	2,364	4,929	262	847	2,171
Rhea.....	16,041	28	1,066	2,167	959	1,706	1,810	3,370	129	958	2,387
Roane.....	31,665	35	8,740	39,200	6,094	12,387	23,608	85,087	1,465	2,998	7,620
Robertson.....	27,024	21	553	1,404	460	862	974	3,082	64	368	(D)
Rutherford.....	40,696	35	1,069	2,949	806	1,742	2,017	6,661	289	1,285	4,285
Scott.....	17,362	44	444	931	403	721	818	1,434	83	531	954
Sequatchie.....	5,685	18	378	(D)	365	(D)	(D)	(D)	(D)	24	74
Sevier.....	23,375	24	269	514	246	479	450	1,199	80	254	718
Shelby.....	482,393	632	41,804	152,582	32,310	65,441	103,324	336,167	31,773	36,042	202,438
Smith.....	14,098	12	409	634	389	682	553	898	99	50	(D)
Stewart.....	9,175	8	52	72	51	76	70	199	9	36	63
Sullivan.....	95,063	82	18,039	79,171	13,909	28,751	54,666	145,474	14,639	17,981	96,089
Sumner.....	33,533	32	1,870	4,210	1,735	3,272	3,774	7,597	348	2,020	6,771
Tipton.....	29,782	16	534	1,277	435	921	931	1,959	73	393	1,213
Trousdale.....	5,520	4	125	210	117	208	174	265	8	(D)	(D)
Unicoi.....	15,886	17	100	2,228	1,042	1,464	1,952	2,707	151	1,378	3,940
Union.....	8,670	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	22	34
Van Buren.....	3,985	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	24	51
Warren.....	22,271	41	1,718	3,853	1,549	3,129	3,172	7,114	339	1,213	3,653
Washington.....	59,971	72	3,399	9,040	2,970	5,845	7,066	15,595	969	3,193	12,085
Wayne.....	13,864	16	581	1,349	543	1,064	1,197	3,798	24	418	1,123
Weakley.....	27,962	30	583	1,572	511	1,008	1,226	2,496	114	1,012	2,749
White.....	16,204	26	1,501	2,527	1,433	2,604	2,349	4,530	137	830	1,754
Williamson.....	24,307	19	472	1,201	395	800	860	1,845	228	550	1,356
Wilson.....	26,318	26	1,118	2,661	979	1,801	1,946	5,032	179	789	2,413
CITIES WITH 10,000 INHAB- ITANTS OR MORE											
Bristol <sup>2</sup> .....	16,771	31	2,832	(D)	2,342	4,933	(D)	(D)	(D)	2,087	(D)
Chattanooga.....	131,041	303	29,737	99,248	24,720	47,742	74,075	173,242	11,369	30,572	120,029
Clarksville.....	16,264	32	2,047	6,238	1,716	3,151	4,457	13,479	1,445	2,125	6,910
Cleveland.....	12,605	50	4,030	10,743	3,552	7,153	7,958	20,706	1,341	2,966	12,353
Columbia.....	10,911	23	1,168	2,874	1,049	1,999	2,324	3,758	128	1,071	4,092
Dyersburg.....	10,885	19	976	2,511	839	1,588	1,936	4,383	299	943	3,770
Elizabethton.....	10,754	18	3,808	13,729	2,979	5,589	8,983	23,871	5,448	(NA)	(NA)
Jackson.....	30,207	52	2,180	5,704	1,752	3,486	4,145	10,312	314	1,521	(D)
Johnson City.....	27,864	44	2,713	7,197	2,359	4,702	5,589	12,770	783	2,332	8,458
Kingsport.....	19,571	26	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	(D)	(D)
Knoxville.....	124,769	218	19,139	57,065	15,910	30,595	41,411	94,512	4,042	19,273	71,336
Memphis.....	396,000	589	40,053	146,457	30,958	62,870	99,269	323,553	19,107	34,107	193,825
Morristown.....	13,019	38	2,602	7,248	2,159	4,947	5,253	11,028	476	(NA)	(NA)
Murfreesboro.....	13,052	25	861	2,373	613	1,331	1,490	5,090	249	(NA)	(NA)
Nashville.....	174,307	361	20,268	63,464	15,721	31,625	43,159	120,442	6,032	21,257	91,539

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>The 1947 data are not strictly comparable with the figures shown for 1954 due to differences in coverage of loggers and fluid milk distributors.  
See discussion in Introduction and footnotes to Table 4.

<sup>2</sup>General statistics for the independent city of Bristol, Virginia are shown in Table 3 for the State of Virginia.

<sup>3</sup>Comparable 1954 and 1947 data are not available.



Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947

(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
	All industries, total <sup>1</sup> ...	4,058	1,366	260,599	850,175	214,027	418,378	612,461	1,678,786	(2)	152,698	3,222,300	3,961,385
20	Food and kindred products..	743	273	27,362	90,488	17,627	36,976	49,104	187,173	(2)	13,242	(4)	(4)
201	Meat products.....	75	31	4,747	17,937	3,490	7,450	12,334	29,404	(2)	3,057	3,538	17,267
2011	Meat packing, plants.....	39	21	3,920	15,885	2,889	6,313	11,171	23,748	(2)	2,802	2,891	14,379
2013	Prepared meats.....	19	4	320	980	218	448	534	3,900	(2)	155	490	2,333
2015	Poultry dressing, plants.....	17	6	507	1,071	383	688	628	1,755	(2)	100	157	555
202	Dairy products.....	171	72	5,460	18,903	3,045	7,234	9,106	38,387	(2)	(D)	(4)	(4)
2022	Natural cheese.....	20	11	519	1,541	417	958	1,113	2,628	(2)	203	(4)	(4)
2023	Concentrated milk.....	13	5	524	1,964	423	1,005	1,516	7,457	(2)	315	(4)	(4)
2024	Ice cream and ices.....	39	13	772	2,561	489	1,079	1,320	6,510	(2)	733	(4)	(4)
2026	Fluid milk.....	10	1	139	462	75	160	213	875	(2)	36	(4)	(4)
2027	Fluid milk and other products..	81	38	3,267	11,713	1,476	3,719	4,556	19,569	(2)	2,152	(4)	(4)
203	Canned and frozen foods.....	39	18	1,733	3,623	1,527	2,672	2,664	8,511	(2)	314	1,603	4,847
2033	Canned fruits and vegetables...	20	11	1,203	2,641	1,091	2,072	2,088	6,781	(2)	(D)	1,246	3,929
2037	Frozen fruits and vegetables...	12	6	472	814	388	539	511	1,360	(2)	(D)	291	647
204	Grain mill products.....	131	34	3,452	11,627	2,424	5,326	7,016	31,766	(2)	1,233	3,687	26,618
2042	Prepared animal feeds.....	60	19	1,934	6,616	1,348	2,951	3,960	20,457	(2)	552	2,124	15,534
205	Bakery products.....	86	44	5,121	16,583	3,125	6,087	8,063	30,117	(2)	1,462	4,412	20,451
2051	Bread and related products.....	78	37	4,579	15,144	2,795	5,492	7,377	27,959	(2)	1,383	3,552	16,388
2052	Biscuits and crackers.....	8	7	542	1,439	330	594	686	2,158	(2)	78	860	4,063
207	Candy and related products...	26	6	930	2,520	784	1,573	1,733	5,232	(2)	(D)	1,175	7,740
208	Beverages.....	101	37	2,842	8,811	1,225	2,470	2,871	17,518	(2)	889	2,657	15,137
209	Miscellaneous foods.....	114	31	3,074	10,482	2,004	4,161	5,313	26,234	(2)	2,621	3,883	27,149
2095	Flavorings.....	6	3	117	343	84	168	220	1,283	(2)	(D)	96	(D)
2097	Manufactured ice.....	59	10	714	1,835	393	668	673	2,630	(2)	447	1,690	6,626
2099	Food preparations, n.e.c.....	42	12	950	2,953	605	1,244	1,269	8,809	(2)	263	(D)	(D)
21	Tobacco manufactures.....	11	9	(D)	(D)	(D)	(D)	(D)	(D)	(2)	(D)	1,948	(D)
2131	Chewing and smoking tobacco..	7	7	1,003	2,600	866	1,542	1,903	12,954	(2)	258	1,228	8,361
22	Textile mill products.....	158	129	33,365	84,412	30,926	58,908	72,087	141,062	(2)	6,684	36,696	124,663
221	Woolen and worsted manufac- ture.....	7	6	(D)	(D)	(D)	(D)	(D)	(D)	(2)	(D)	(D)	(D)
2212	Yarn mills, wool except carpet.	3	3	202	579	182	406	461	715	(2)	5	...	...
222	Yarn and thread mills.....	11	10	3,965	10,153	3,740	7,356	9,131	22,478	(2)	1,404	(D)	(D)
2224	Yarn mills, cotton system.....	5	5	2,152	5,540	2,026	4,038	4,938	9,107	(2)	989	2,371	8,369
223	Broad-woven fabrics.....	8	8	5,058	14,751	4,654	9,592	12,566	21,111	(2)	1,407	6,676	30,404
225	Knitting mills.....	102	84	19,665	45,715	18,451	33,654	39,884	67,752	(2)	2,862	20,552	56,606
2251	Full-fashioned hosiery mills...	20	17	3,789	11,004	3,460	6,088	9,313	16,632	(2)	247	4,449	18,124
2252	Seamless hosiery mills.....	70	56	10,748	21,882	10,198	18,561	19,429	32,497	(2)	2,001	10,580	22,816
2254	Knit underwear mills.....	5	5	3,858	9,321	3,608	6,562	8,118	13,349	(2)	265	4,712	(D)
2261	Finishing textiles exc. wool.	6	5	1,810	5,477	1,625	3,251	4,521	13,496	(2)	248	2,204	11,696
227	Carpets and rugs.....	9	5	597	1,763	527	1,063	1,069	3,140	(2)	344	(D)	(D)
2273	Carpets and rugs, except wool..	9	5	597	1,763	527	1,063	1,069	3,140	(2)	344	(D)	(D)
229	Miscellaneous textile goods..	11	8	768	2,374	704	1,582	2,035	5,584	(2)	273	(D)	(D)
2293	Padding and upholstery filling.	5	3	168	558	150	396	457	1,551	(2)	37	(D)	(D)
23	Apparel and related prod- ucts.....	174	125	27,303	50,363	25,732	46,356	44,134	80,442	(2)	1,367	19,017	47,533
231	Men's and boys' suits and coats.....	7	7	(D)	(D)	(D)	(D)	(D)	(D)	(2)	(D)	(D)	(D)
2311	Men's & boys' suits & coats....	6	6	1,835	3,580	1,700	2,744	3,009	3,537	(2)	35	1,861	(D)
232	Men's and boys' furnishings...	87	81	20,017	34,678	19,063	34,122	31,436	54,567	(2)	934	12,967	28,379
2321	Men's dress shirts & nightwear.	26	26	8,307	13,438	8,051	14,444	12,550	18,843	(2)	318	2,165	4,216
2327	Separate trousers.....	12	12	2,685	5,050	2,595	4,772	4,677	6,759	(2)	129	(D)	(D)
2328	Work shirts.....	12	11	2,782	4,400	2,716	4,551	4,122	7,330	(2)	65	4,444	10,965
2329	Men's and boys' clothing, nec..	31	28	5,803	10,883	5,288	9,645	9,344	20,321	(2)	402	4,648	9,808
233	Women's and misses' outerwear	19	12	1,872	4,018	1,764	3,424	3,460	6,948	(2)	89	1,021	2,001
2334	Dresses, dozen price.....	8	6	1,248	2,355	1,199	2,306	2,155	4,217	(2)	25	696	1,237
234	Women's undergarments.....	4	3	460	959	438	811	788	2,020	(2)	25	(D)	(D)
2341	Women's & children's underwear.	4	3	460	959	438	811	788	2,020	(2)	25	237	(D)
239	Fabricated textiles.....	51	17	2,440	5,814	2,139	4,210	4,357	11,388	(2)	254	2,256	9,022
2392	Housefurnishings, n.e.c.....	16	7	1,126	2,238	1,066	2,100	1,935	5,777	(2)	11	1,039	2,888
2393	Textile bags.....	5	3	416	1,358	343	764	992	2,428	(2)	(D)	695	3,160
2394	Canvas products.....	14	2	394	848	351	611	643	1,349	(2)	(D)	223	1,592
2399	Textile products, n.e.c.....	10	3	373	1,090	258	496	554	1,358	(2)	10	236	(D)
24	Lumber and wood products...	1,233	170	18,016	41,001	16,425	31,847	33,411	70,988	(2)	3,715	(4)	(4)
2411	Logging camps & contractors..	88	2	392	654	335	565	516	943	(2)	209	(4)	(4)
242	Lumber and basic products....	996	104	12,407	26,924	11,449	22,098	22,797	45,548	(2)	2,170	12,996	37,508
2421	Sawmills and planing mills....	971	96	11,791	25,479	10,890	21,059	21,620	43,438	(2)	2,080	10,276	30,121
2422	Veneer mills.....	4	4	323	873	290	568	696	1,201	(2)	52	(D)	(D)
2424	Cooperage stocks mills.....	17	4	264	520	241	418	431	828	(2)	38	2,212	5,634
243	Millwork and related products	50	16	1,047	3,203	893	1,803	2,194	4,541	(2)	84	1,086	4,227
2432	Rattan and willowware.....	5	4	331	991	305	642	687	1,387	(2)	40	(D)	(D)

See footnotes at end of table.



Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establish- ments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
244	Lumber and wood products— Continued Wooden containers.....	25	13	1,656	4,212	1,492	2,855	3,271	10,122	( <sup>2</sup> )	763	3,102	5,546
249	Miscellaneous wood products..	74	35	2,512	6,007	2,254	4,524	4,631	9,832	( <sup>2</sup> )	487	2,997	9,262
2499	Wood products, n.e.c.....	67	32	2,279	5,353	2,053	4,105	4,144	7,897	14,721	405	2,657	(D)
25	Furniture and fixture.....	191	77	10,061	27,206	8,763	18,279	20,244	43,049	( <sup>2</sup> )	1,287	7,942	26,102
251	Household furniture.....	142	69	9,214	24,616	8,059	16,894	18,351	38,476	( <sup>2</sup> )	1,176	7,415	24,789
2511	Wood furniture, not upholstered	70	31	4,744	11,563	4,238	8,400	8,609	17,769	33,730	587	4,265	13,325
2512	Upholstered household furniture	43	27	2,968	8,130	2,581	5,898	6,472	12,948	29,943	412	1,942	6,594
2514	Metal household furniture.....	6	4	486	1,505	426	854	1,235	2,729	5,711	73	78	(D)
2515	Mattresses and bedsprings.....	23	7	1,015	3,417	812	1,739	2,034	5,028	12,317	102	1,103	4,494
2541	Partitions and fixtures.....	16	3	307	1,084	246	507	784	1,732	3,302	41	(D)	(D)
256	Screens, shades and blinds...	22	3	387	992	325	609	697	2,166	( <sup>2</sup> )	33	389	941
2561	Window and door screens.....	5	2	259	672	228	422	502	1,552	3,710	(D)	(D)	(D)
26	Pulp, paper and products...	59	48	7,925	31,677	6,532	14,044	23,463	64,516	( <sup>2</sup> )	27,497	4,817	35,807
261	Pulp, paper and board.....	17	17	3,771	17,328	3,025	6,782	12,616	39,102	( <sup>2</sup> )	26,220	2,529	25,860
2611	Pulp mills.....	7	7	1,679	7,385	1,294	2,889	5,089	18,344	39,547	12,339	1,142	15,805
267	Paperboard containers.....	28	24	2,463	7,773	2,070	4,240	5,654	13,570	( <sup>2</sup> )	771	1,679	7,147
269	Pulp, paper and products, n.e.c.....	8	4	1,447	5,692	1,268	2,656	4,636	9,990	41,742	(D)	(D)	(D)
2699	Paper & board products, n.e.c..	8	4	1,447	5,692	1,268	2,656	4,636	9,990	41,742	(D)	456	(D)
27	Printing and publishing....	388	67	10,067	39,837	6,763	13,466	25,888	66,606	( <sup>2</sup> )	3,286	9,313	46,841
2711	Newspapers.....	123	17	4,136	16,947	2,312	4,372	9,339	31,621	45,245	572	3,223	20,284
2721	Periodicals.....	19	5	620	1,788	186	350	530	3,161	5,344	39	1,323	7,165
273	Books.....	15	2	1,554	6,849	1,294	2,851	5,477	10,211	( <sup>2</sup> )	875	347	1,753
2751	Commercial printing.....	143	24	2,401	9,021	1,955	3,829	6,799	13,535	24,215	1,064	2,371	9,044
2761	Lithographing.....	44	10	774	2,868	581	1,180	2,010	4,387	7,859	421	(D)	(D)
279	Printing trade services.....	28	7	455	2,016	348	716	1,501	3,068	( <sup>2</sup> )	234	353	1,752
2793	Photoengraving.....	9	2	158	792	123	258	607	1,234	1,522	100	104	875
28	Chemicals and products.....	179	94	42,885	196,586	30,687	62,046	124,954	454,064	( <sup>2</sup> )	(D)	28,204	162,578
281	Inorganic chemicals.....	13	11	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2819	Inorganic chemicals, n.e.c.....	11	9	12,921	64,672	8,555	17,792	39,264	150,030	226,648	(D)	1,547	11,605
282	Organic chemicals.....	20	17	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2823	Plastics materials.....	4	4	2,985	14,332	2,122	4,060	8,860	39,974	74,362	2,917	1,844	(D)
2829	Organic chemicals.....	6	4	2,734	14,062	1,898	3,689	8,573	40,453	76,196	5,403	(NA)	(NA)
283	Drugs and medicines.....	16	7	1,592	6,233	901	1,848	2,623	21,295	30,578	185	2,086	11,473
2834	Pharmaceutical preparations....	16	7	1,592	6,233	901	1,848	2,623	21,295	30,578	185	2,086	11,473
284	Soap and related products....	19	4	280	1,035	146	249	407	2,222	( <sup>2</sup> )	176	(D)	(D)
285	Paints and allied products...	13	7	539	2,083	303	626	858	3,179	( <sup>2</sup> )	314	472	2,178
286	Gum and wood chemicals.....	4	3	415	1,437	344	762	1,087	1,985	( <sup>2</sup> )	60	702	2,590
287	Fertilizers.....	18	14	1,130	3,854	934	2,089	2,788	9,981	( <sup>2</sup> )	1,596	1,319	6,550
2871	Fertilizers.....	12	12	978	3,445	813	1,839	2,501	9,161	26,914	812	1,222	(D)
2872	Fertilizers, mixing only.....	6	2	152	409	121	250	287	820	3,364	784	(D)	(D)
288	Vegetable and animal oil.....	27	18	1,256	4,330	998	2,571	3,063	11,713	( <sup>2</sup> )	963	1,345	11,289
2881	Cottonseed oil mills.....	13	13	1,015	3,494	800	2,084	2,480	9,163	45,233	(D)	1,135	(D)
289	Chemical products, n.e.c.....	49	13	844	3,041	526	1,079	1,502	9,322	( <sup>2</sup> )	611	742	3,890
2893	Toilet preparations.....	13	4	304	980	176	343	341	2,670	4,155	41	284	(D)
2896	Compressed and liquefied gases.	14	5	205	730	125	263	446	2,107	2,825	274	220	(D)
2899	Chemical products, n.e.c.....	16	3	249	919	184	389	576	3,369	7,898	243	171	695
29	Petroleum and coal products	13	5	456	1,692	358	709	1,191	4,412	( <sup>2</sup> )	286	596	(D)
295	Paving and roofing materials.	8	2	190	666	148	321	466	1,408	( <sup>2</sup> )	245	(D)	(D)
30	Rubber products.....	20	11	5,367	21,001	4,638	8,193	17,278	53,912	( <sup>2</sup> )	3,385	6,249	(D)
3099	Rubber industries, n.e.c.....	14	6	707	2,457	588	1,121	1,888	6,011	11,472	527	736	(D)
31	Leather and leather goods..	67	44	10,833	25,832	10,210	18,998	23,097	54,819	( <sup>2</sup> )	604	10,455	41,411
314	Footwear, except rubber.....	32	27	8,975	21,066	8,521	15,880	19,148	45,430	( <sup>2</sup> )	416	9,409	37,471
315	Leather gloves.....	3	3	224	498	205	386	391	575	( <sup>2</sup> )	(D)	(D)	(D)
319	Miscellaneous leather goods..	8	2	122	281	104	204	213	438	( <sup>2</sup> )	(D)	256	699
32	Stone, clay and glass products.....	194	54	8,483	25,975	7,423	14,171	20,375	48,103	( <sup>2</sup> )	4,104	8,115	31,952
3231	Products of purchased glass..	6	1	104	339	83	165	243	526	1,020	6	230	522
325	Structural clay products....	14	8	1,074	2,862	999	1,959	2,489	3,977	( <sup>2</sup> )	628	1,257	4,084
3251	Brick and hollow tile.....	10	6	765	2,042	717	1,390	1,771	2,876	3,906	(D)	881	(D)
326	Pottery and related products.	12	5	2,315	6,109	2,062	3,385	4,878	8,352	( <sup>2</sup> )	83	2,266	7,056
327	Concrete and plaster products	115	25	1,736	5,070	1,435	2,969	3,440	9,848	( <sup>2</sup> )	861	1,828	6,843
3271	Concrete products.....	108	21	1,456	4,199	1,198	2,436	2,794	8,379	15,049	753	1,309	4,869
3281	Cut-stone and stone products.	26	6	881	2,375	785	1,541	1,914	3,175	5,503	155	260	1,010

See footnotes at end of table.

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
33	Primary metal industries...	55	32	11,579	45,119	9,932	19,008	35,648	92,598	(2)	23,527	15,151	86,104
331	Blast furnace and steel mills	6	6	1,017	3,501	890	1,891	2,803	9,731	(2)	323	(D)	(D)
3361	Nonferrous foundries.....	9	1	104	307	89	162	229	457	793	30	485	(D)
339	Primary metal industries, n.e.c.....	4	4	341	1,444	265	550	977	4,123	(2)	226	(D)	(D)
34	Fabricated metal products..	196	88	16,528	55,696	13,645	27,393	41,618	102,057	(2)	7,892	14,783	52,607
342	Cutlery, tools, and hardware.	10	6	1,518	4,167	1,244	2,575	2,973	7,598	(2)	379	230	1,035
343	Heating and plumbing equipment.....	21	18	5,712	17,869	4,896	9,692	13,551	33,711	(2)	4,971	7,730	27,664
344	Structural metal products....	101	39	7,471	28,187	5,900	11,711	20,804	48,104	(2)	2,029	4,901	17,839
3441	Structural and ornamental work.	49	20	2,246	8,009	1,775	3,643	5,626	14,615	27,137	692	1,065	5,597
3443	Boiler shop products.....	15	10	4,769	18,768	3,768	7,419	14,251	30,277	58,965	1,225	3,669	11,296
346	Metal stamping and coating...	27	7	701	2,030	627	1,285	1,605	3,478	(2)	194	1,071	3,283
3463	Metal stampings.....	7	3	246	987	205	470	713	1,486	2,442	(D)	(D)	(D)
348	Fabricated wire products.....	12	7	589	1,663	529	1,216	1,348	2,917	5,439	87	504	1,537
3489	Wirework, n.e.c.....	12	7	589	1,663	529	1,216	1,348	2,917	5,439	87	504	1,537
35	Machinery, except electrical.....	157	52	8,397	33,160	6,502	13,148	23,147	56,815	(2)	3,249	5,508	24,256
352	Tractors and farm machinery..	15	7	2,685	11,771	1,949	3,605	7,837	20,211	43,552	(D)	1,169	3,995
3522	Farm machinery (exc. tractors).	15	7	2,685	11,771	1,949	3,605	7,837	20,211	43,552	(D)	1,169	3,995
353	Construction and mining machinery.....	9	6	634	2,205	491	1,028	1,638	3,227	(2)	349	(D)	(D)
354	Metalworking machinery.....	26	5	266	998	226	469	808	1,533	(2)	159	(D)	(D)
3544	Special dies and tools.....	21	4	229	866	196	408	707	1,421	2,056	153	(NA)	(NA)
355	Special-industry machinery, n.e.c.....	24	11	898	3,329	649	1,315	2,083	4,219	(2)	208	803	3,576
3553	Woodworking machinery.....	8	3	422	1,536	292	558	920	1,553	2,997	109	327	1,545
3559	Special-industry mach., n.e.c..	5	3	161	598	107	250	372	906	1,466	(D)	199	1,088
356	General industrial machinery.	16	8	1,673	6,859	1,266	2,742	4,248	12,563	(2)	922	1,302	6,605
3565	Industrial trucks and tractors.	3	2	160	504	147	339	404	781	1,659	(D)	(D)	(D)
36	Electrical machinery.....	38	20	3,967	13,454	3,395	6,701	10,526	32,097	(2)	2,719	1,224	5,089
3621	Electrical appliances.....	8	4	276	867	211	387	511	1,723	4,613	72	218	(D)
366	Communication equipment.....	10	6	1,836	6,098	1,577	3,209	4,756	16,236	(2)	880	(D)	(D)
369	Electrical products, n.e.c....	8	6	644	1,974	570	1,135	1,647	4,645	(2)	118	330	2,151
37	Transportation equipment...	37	15	5,680	24,383	4,124	8,671	16,147	52,846	(2)	1,927	5,012	22,649
371	Motor vehicles and equipment.	21	10	2,710	12,614	2,281	4,835	10,080	29,935	(2)	726	(D)	(D)
38	Instruments and related products.....	13	4	2,175	8,074	1,763	3,442	6,142	13,931	(2)	335	1,679	(D)
39	Miscellaneous manufactures <sup>5</sup>	132	49	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2,734	8,428
394	Toys and sporting goods.....	21	8	918	1,828	818	1,411	1,489	4,084	(2)	78	530	1,606
3949	Sporting and athletic goods....	15	5	712	1,410	642	1,157	1,200	2,748	5,705	55	485	(D)
395	Office supplies.....	17	7	934	2,319	802	1,719	1,683	4,513	(2)	734	(D)	(D)
398	Miscellaneous manufactures <sup>5</sup> ..	76	29	6,364	25,379	5,244	9,725	17,248	33,979	(2)	4,766	985	2,903
399													
3988	Morticians' goods.....	23	10	528	1,350	441	919	932	1,706	4,416	88	542	1,360
1900	Ordnance and accessories.....	8	8	5,183	21,975	4,301	7,840	15,037	28,674	(2)	4,553	...	...

Note: Detailed figures may not add to the totals because of independent rounding. D Withheld to avoid disclosing figures for individual companies. NA Not available. <sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industries (4-digit) and industry groups (3-digit) are not shown. Industries and industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "all industries" line. <sup>2</sup>The total value of shipments figures for industry groups and a few individual industries have not been published due to the extensive and unmeasurable duplication arising from shipments from one establishment to another in the same industry classification. (See Introduction.) <sup>3</sup>The 1954 and 1947 "all industries" totals are not strictly comparable because of differences in scope between the two years in major groups 20 and 24 (see footnote 4). <sup>4</sup>Comparable data for Major Groups 20 and 24 are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude establishments in S.I.C. Industry 2411, Logging Camps and Contractors, which are included in the scope of the 1954 Census; the 1947 Census also excludes plants processing and distributing fluid milk which in 1954 are classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
20	Food and kindred products except subgroup 202, Dairy products.....	21,902	148,786	20,955	119,209
24	Lumber and wood products except Industry 2411, Logging camps and contractors.....	17,624	70,045	20,181	56,543

<sup>5</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)



Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947  
(For explanation of column captions see Introduction)

Code	Industry group	Establish- ments, number	1954							1947	
			All employees		Production workers			Value added by manufacture	Capital expendi- tures, new	All employees, number	Value added by manufacture
			Number	Payroll (\$1,000)	Number	Man-hours ((1,000)	Wages (\$1,000)				
CHATTANOOGA STANDARD METROPOLITAN AREA (Consists of Hamilton County, Tennessee; and Walker County, Georgia)											
	All industries, total <sup>1</sup> ..	410	42,759	143,569	35,724	69,907	107,515	277,314	33,496	<sup>2</sup> 38,193	<sup>2</sup> 149,104
20	Food and kindred products..	67	3,121	10,999	1,806	3,878	5,295	19,533	1,272	(NA)	(NA)
201	Meat products.....	8	334	1,001	210	485	539	1,336	22	(NA)	(NA)
202	Dairy products.....	14	441	1,600	170	406	557	2,774	243	(NA)	(NA)
205	Bakery products.....	11	640	2,313	381	787	1,129	4,446	164	(NA)	(NA)
208	Beverages.....	9	293	975	88	151	190	2,107	80	(NA)	(NA)
209	Miscellaneous foods.....	16	742	2,658	454	938	1,357	5,236	567	(NA)	(NA)
22	Textile mill products.....	48	12,355	31,700	11,462	21,917	27,312	53,947	1,987	(NA)	(NA)
225	Knitting mills.....	29	5,190	11,968	4,801	8,392	10,031	15,128	273	(NA)	(NA)
227	Carpets and rugs.....	7	476	1,362	405	898	1,008	3,456	297	(NA)	(NA)
23	Apparel & related products.	10	782	1,629	754	1,374	1,355	3,585	15	(NA)	(NA)
232	Men's & boys' furnishings.....	3	345	703	340	609	622	1,040	9	(NA)	(NA)
24	Lumber and wood products...	56	1,299	3,265	1,143	2,196	2,458	5,549	277	(NA)	(NA)
242	Lumber and basic products.....	38	377	824	357	692	748	1,245	84	(NA)	(NA)
244	Wooden containers.....	6	689	1,812	587	1,115	1,259	2,640	118	(NA)	(NA)
249	Miscellaneous wood products...	5	210	601	179	356	426	1,626	73	(NA)	(NA)
25	Furniture and fixtures.....	26	1,141	3,164	990	1,916	2,279	4,914	111	(NA)	(NA)
251	Household furniture.....	19	1,093	3,013	952	1,842	2,184	4,682	105	(NA)	(NA)
26	Pulp, paper and products...	7	1,435	5,303	1,189	2,411	3,673	10,734	1,603	(NA)	(NA)
267	Paperboard containers.....	3	783	2,489	642	1,272	1,770	3,729	306	(NA)	(NA)
27	Printing and publishing....	42	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
275	Commercial printing.....	21	197	674	169	355	557	1,101	115	(NA)	(NA)
28	Chemicals and products.....	21	5,359	24,075	3,927	8,022	15,658	73,139	4,968	(NA)	(NA)
29	Petroleum and coal products	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
30	Rubber products.....	3	44	(D)	21	(D)	(D)	(D)	(D)	(NA)	(NA)
31	Leather and leather goods..	5	295	777	263	568	557	1,247	32	(NA)	(NA)
32	Stone, clay, & glass prod..	16	2,270	7,522	1,969	3,856	5,929	12,450	945	(NA)	(NA)
325	Structural clay products.....	3	358	958	330	657	846	1,189	298	(NA)	(NA)
327	Concrete and plaster products..	7	149	534	122	234	355	923	56	(NA)	(NA)
33	Primary metal industries...	17	3,334	11,934	2,967	5,401	9,692	22,092	16,693	(NA)	(NA)
332	Iron and steel foundries.....	8	2,724	9,514	2,461	4,303	7,936	14,989	905	(NA)	(NA)
34	Fabricated metal products..	34	7,053	26,265	5,770	11,435	20,302	41,497	4,644	(NA)	(NA)
343	Heating and plumbing equipment	8	2,281	7,541	2,000	3,961	6,100	13,401	3,581	(NA)	(NA)
344	Structural metal products.....	16	4,423	17,532	3,493	6,829	13,340	26,275	989	(NA)	(NA)
348	Fabricated wire products.....	5	188	631	157	371	470	991	48	(NA)	(NA)
35	Machinery, exc. electrical.	29	1,938	7,804	1,566	3,196	6,005	12,310	519	(NA)	(NA)
355	Special-industry mach., nec...	8	476	1,994	335	657	1,238	2,575	56	(NA)	(NA)
36	Electrical machinery.....	6	339	1,272	280	578	1,008	1,875	36	(NA)	(NA)
37	Transportation equipment...	5	401	(D)	341	(D)	(D)	(D)	(D)	(NA)	(NA)
38	Instruments & related prod.	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
39	Miscellaneous manufactures <sup>3</sup>	15	615	2,351	540	1,008	1,966	4,736	109	(NA)	(NA)
MEMPHIS STANDARD METROPOLITAN AREA (Consists of Shelby County, Tennessee)											
	All industries, total <sup>1</sup> ..	632	41,804	152,582	32,310	65,441	103,324	336,167	31,773	<sup>2</sup> 36,042	<sup>2</sup> 202,438
20	Food and kindred products..	115	7,430	26,351	4,563	9,315	13,422	53,701	4,567	7,191	45,251
201	Meat products.....	8	1,376	5,567	898	1,957	3,423	8,953	888	(NA)	(NA)
202	Dairy products.....	16	917	3,462	447	1,027	1,294	5,259	820	(NA)	(NA)
203	Canned and frozen foods.....	7	110	169	103	143	128	325	31	(NA)	(NA)
204	Grain mill products.....	12	927	3,371	638	1,432	2,047	8,892	376	(NA)	(NA)
205	Bakery products.....	27	1,917	6,177	1,180	2,017	2,990	11,893	739	(NA)	(NA)
207	Candy and related products....	5	173	397	160	321	294	1,291	5	(NA)	(NA)
208	Beverages.....	12	620	1,873	207	412	502	3,097	144	(NA)	(NA)
209	Miscellaneous foods.....	28	1,387	5,333	926	2,004	2,741	13,988	1,561	(NA)	(NA)
21	Tobacco manufactures.....	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
22	Textile mill products.....	3	787	(D)	674	(D)	(D)	(D)	(D)	(NA)	(NA)



## MANUFACTURES--AREA STATISTICS

Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947  
(For explanation of column captions see Introduction)

Code	Industry group	Establish- ments, number	1954							1947	
			All employees		Production workers			Value added by manufacture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
			Number	Payroll (\$1,000)	Number •	Man-hours ((1,000)	Wages (\$1,000)				
23	Apparel and related products	36	1,613	4,022	1,350	2,669	2,849	6,191	235	1,294	5,306
233	Women's & misses' outerwear....	6	257	477	242	489	425	814	21	(NA)	(NA)
239	Fabricated textiles, nec.....	24	1,196	3,309	960	1,960	2,232	4,973	211	(NA)	(NA)
24	Lumber and wood products....	63	4,822	14,275	4,386	9,628	11,342	28,067	1,341	6,119	17,623
242	Lumber and basic products.....	25	3,188	9,400	2,948	6,781	7,771	17,677	623	(NA)	(NA)
243	Millwork & related products....	14	586	1,849	519	1,074	1,266	2,398	64	(NA)	(NA)
249	Miscellaneous wood products....	18	718	1,843	631	1,228	1,410	2,675	107	(NA)	(NA)
25	Furniture and fixtures.....	50	3,003	8,589	2,591	5,301	5,988	14,191	303	2,450	8,558
251	Household furniture.....	28	2,614	7,511	2,264	4,688	5,239	11,835	258	(NA)	(NA)
256	Screens, shades, and blinds....	10	295	758	255	475	553	1,756	25	(NA)	(NA)
26	Pulp, paper and products....	19	3,219	12,690	2,639	5,623	9,358	29,982	1,008	1,708	18,190
261	Pulp, paper and board.....	4	849	3,878	589	1,353	2,495	13,727	399	(NA)	(NA)
27	Printing and publishing....	74	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1,341	8,651
276	Lithographing.....	14	102	361	68	136	230	551	88	(NA)	(NA)
279	Printing trade service.....	9	110	500	73	131	368	814	16	(NA)	(NA)
28	Chemicals and products.....	63	3,466	13,742	2,243	4,974	7,246	36,977	16,592	3,276	21,798
281	Inorganic chemicals.....	4	538	2,633	347	726	1,504	7,328	12,385	(NA)	(NA)
283	Drugs and medicines.....	6	700	2,964	373	746	1,035	8,970	68	(NA)	(NA)
284	Soap and related products.....	10	144	409	74	138	194	1,244	143	(NA)	(NA)
285	Paints and allied products....	9	297	1,115	153	323	395	1,706	142	(NA)	(NA)
288	Vegetable and animal oils.....	11	864	3,174	667	1,693	2,218	9,048	897	(NA)	(NA)
289	Chemical products, nec.....	18	437	1,758	228	468	641	5,172	142	(NA)	(NA)
29	Petroleum and coal products.	6	270	1,065	209	456	772	3,051	185	(NA)	(NA)
30	Rubber products.....	6	3,948	(D)	3,433	(D)	(D)	(D)	(D)	(NA)	(NA)
31	Leather and leather goods...	4	165	407	146	261	294	640	9	(NA)	(NA)
32	Stone, clay, & glass prods..	17	481	1,529	398	839	1,004	3,229	105	567	1,869
327	Concrete and plaster products..	11	294	947	236	520	578	2,378	101	(NA)	(NA)
33	Primary metal industries....	10	334	1,141	284	595	833	1,688	50	298	1,154
332	Iron and steel foundries.....	4	148	437	139	304	356	870	4	(NA)	(NA)
34	Fabricated metal products...	64	1,697	6,041	1,342	2,677	4,288	12,310	661	1,371	6,549
344	Structural metal products.....	40	1,190	4,476	912	1,872	3,146	8,874	579	(NA)	(NA)
346	Metal stamping and coating....	7	186	693	165	356	532	1,204	50	(NA)	(NA)
349	Metal products, nec.....	8	126	384	98	167	227	693	15	(NA)	(NA)
35	Machinery, exc. electrical..	44	4,502	19,077	3,322	6,555	12,433	34,234	2,076	1,377	6,865
356	General industrial machinery...	9	1,452	6,151	1,071	2,314	3,692	11,550	887	(NA)	(NA)
36	Electrical machinery.....	7	631	2,327	553	1,043	1,879	7,489	397	376	1,088
369	Electrical products, nec.....	3	186	741	153	303	552	1,862	63	(NA)	(NA)
37	Transportation equipment....	12	2,416	11,613	2,063	4,429	9,430	28,673	696	(NA)	(NA)
38	Instruments & related prod..	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
39	Miscellaneous manufactures <sup>3</sup> .	33	782	2,031	665	1,186	1,446	3,338	137	(NA)	(NA)
394	Toys and sporting goods.....	5	171	372	141	209	246	1,219	21	(NA)	(NA)
398	Miscellaneous manufactures <sup>3</sup> ....	20	391	1,154	326	594	787	1,493	57	(NA)	(NA)

D. Withheld to avoid disclosing figures for individual companies.

NA Not available

<sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industry groups (3-digit) are not shown. Industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "All industries" line.

<sup>2</sup>The 1954 and 1947 "All industries" totals are not strictly comparable because of differences in coverage of loggers and fluid milk distributors. See discussion in Introduction and footnote to Table 4 for comparable figures at the State level.

<sup>3</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)

Table 6.—GENERAL STATISTICS FOR PRINCIPAL INDUSTRIAL COUNTIES, BY MAJOR INDUSTRY GROUP: 1954 AND 1947

(Principal industrial counties include all counties with 20,000 or more manufacturing employees. For explanation of column captions see Introduction)

Code	Major industry group	1954								1947	
		Establish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendit- ures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
		DAVIDSON COUNTY									
	All industries, total <sup>1</sup> .....	462	30,499	104,061	23,295	47,021	69,742	203,655	11,025	<sup>2</sup> 29,841	<sup>2</sup> 131,871
20	Food and kindred products.....	94	4,892	17,233	3,139	6,628	9,785	39,064	1,739	4,631	28,396
22	Textile mill products.....	5	1,959	4,537	1,874	3,533	3,820	8,460	1,179	1,763	4,611
23	Apparel & related products....	18	2,196	4,553	1,784	3,394	3,355	8,446	165	2,493	6,255
24	Lumber and wood products.....	41	822	2,295	722	1,583	1,721	3,142	119	1,090	3,038
25	Furniture and fixtures.....	22	1,049	3,250	899	1,936	2,391	4,422	99	919	3,043
26	Pulp, paper and products.....	10	474	1,518	396	831	1,215	3,486	205	348	(D)
27	Printing and publishing.....	86	3,286	12,934	2,068	4,142	7,729	20,729	1,012	3,633	18,684
28	Chemicals and products.....	29	5,630	24,452	4,485	8,871	17,481	48,981	3,693	5,684	33,055
30	Rubber.....	5	192	516	162	324	370	1,434	71	(D)	(D)
31	Leather and leather goods.....	12	1,655	4,309	1,521	2,928	3,791	8,085	37	1,871	(D)
32	Stone, clay & glass prod.....	20	757	2,277	661	1,396	1,835	5,292	539	820	2,773
33	Primary metal industries.....	3	106	292	101	196	262	354	4	205	616
34	Fabricated metal products.....	40	1,998	6,206	1,629	3,531	4,629	12,730	408	2,170	8,390
35	Machinery, exc. electrical.....	21	429	1,593	378	832	1,272	2,417	186	356	1,310
36	Electrical machinery.....	13	545	1,856	433	887	1,275	3,284	138	209	1,544
39	Miscellaneous manufactures <sup>3</sup> ....	25	1,090	3,635	827	1,613	2,155	6,789	205	221	566
		HAMILTON COUNTY									
	All industries, total <sup>1</sup> .....	365	37,066	128,447	30,552	59,292	94,791	250,889	32,158	<sup>2</sup> 33,184	<sup>2</sup> 128,851
20	Food and kindred products.....	61	2,930	10,276	1,724	3,663	5,011	18,168	1,194	2,415	13,490
22	Textile mill products.....	37	7,219	18,039	6,707	12,093	15,491	29,985	760	7,167	27,838
24	Lumber and wood products.....	36	1,196	3,134	1,049	2,048	2,331	5,341	263	1,375	4,349
26	Pulp, paper and products.....	7	1,435	5,303	1,189	2,411	3,673	10,734	1,603	1,155	6,775
28	Chemicals and products.....	21	5,359	24,075	3,927	8,022	15,658	73,139	4,968	746	4,750
31	Leather and leather goods.....	5	295	777	263	568	557	1,247	32	269	771
32	Stone, clay, & glass prod.....	16	2,270	7,522	1,969	3,856	5,929	12,450	945	1,790	73,127
35	Machinery, exc. electrical.....	29	1,938	7,804	1,566	3,196	6,005	12,310	519	2,447	108,687
		KNOX COUNTY									
	All industries total <sup>1</sup> .....	279	20,592	62,289	16,945	32,860	44,476	104,594	4,667	<sup>2</sup> 19,905	<sup>2</sup> 74,962
20	Food and kindred products.....	61	3,416	12,029	2,151	4,802	6,091	21,614	1,468	(NA)	(NA)
22	Textile mill products.....	10	5,383	13,225	4,999	9,197	11,298	17,398	277	(NA)	(NA)
23	Apparel & related products.....	14	2,688	5,335	2,546	4,344	4,704	7,273	98	(NA)	(NA)
32	Stone, clay & glass products...	26	1,691	5,138	1,485	3,035	3,919	8,254	301	(NA)	(NA)
		SHELBY COUNTY									
	(Shelby County is coextensive with the Memphis Standard Metropolitan Area. Data for this area are shown in Table 5)										

D Withheld to avoid disclosing data for individual companies.

NA Not available.

<sup>1</sup>In order to avoid disclosing data for individual companies, the statistics for some industry groups are not shown. Industry groups reporting less than 100 employees are also omitted. They are included, however, in the "All industries" line.<sup>2</sup>The 1954 and 1947 "All industries" totals are not strictly comparable because of differences in coverage of loggers and fluid milk distributors. See discussion in Introduction and footnote to Table 4 for comparable figures at the State level.<sup>3</sup>Includes privately-owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)





(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Dickson:																					
1 to 19 employees.....	20	2	...	...	...	16	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...
20 to 99 employees.....	3	...	...	...	...	2	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Dyer:																					
1 to 19 employees.....	21	7	...	1	...	5	...	...	2	...	...	...	...	2	...	3	1	...	...	...	...
20 to 99 employees.....	5	2	...	...	1	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	3	...	...	1	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Fayette:																					
1 to 19 employees.....	10	...	...	...	...	7	...	...	2	1	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Fentress:																					
1 to 19 employees.....	33	2	...	...	...	30	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	2	...	...	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Franklin:																					
1 to 19 employees.....	21	7	...	...	...	10	...	...	3	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees and over.....	4	2	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	4	...	...	1	1	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...
Gibson:																					
1 to 19 employees.....	28	11	...	...	...	8	...	...	5	...	...	...	...	2	...	...	...	...	...	...	2
20 to 99 employees.....	4	1	...	...	...	...	...	1	...	2	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	12	...	...	3	3	2	...	...	...	...	...	1	2	...	...	...	...	...	...	...	1
Giles:																					
1 to 19 employees.....	14	5	...	1	...	5	...	...	2	1	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	4	1	...	1	...	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	5	...	...	...	2	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
Grainger:																					
1 to 19 employees.....	11	...	...	...	...	11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Greene:																					
1 to 19 employees.....	20	5	...	...	...	5	...	1	3	...	...	...	1	3	...	1	1	...	...	...	...
20 to 99 employees.....	9	3	1	1	...	...	...	...	1	1	...	...	...	...	...	1	...	1	...	...	...
100 employees and over.....	4	1	...	1	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
Grundy:																					
1 to 19 employees.....	27	2	...	...	...	21	...	...	3	...	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Hamblen:																					
1 to 19 employees.....	24	6	...	3	1	4	3	...	4	...	...	...	1	1	...	...	...	...	1	...	...
20 to 99 employees.....	18	6	...	4	...	1	4	...	1	1	...	...	...	...	...	1	...	...	...	...	...
100 employees and over.....	8	...	...	1	...	...	6	...	...	1	...	...	...	...	...	...	...	...	...	...	...
Hamilton:																					
1 to 19 employees.....	192	29	...	5	5	28	15	1	32	10	1	2	1	6	6	15	20	3	2	1	10
20 to 99 employees.....	92	22	...	15	2	5	7	...	7	5	...	1	3	4	5	8	3	1	1	...	3
100 employees and over.....	81	10	...	17	2	3	2	6	1	6	1	...	1	6	6	10	6	1	2	...	1
Hancock:																					
1 to 19 employees.....	7	...	...	...	...	7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hardeman:																					
1 to 19 employees.....	27	1	...	...	...	22	...	...	1	...	...	...	...	3	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	1	...	1	...	...	...	...	...	...	...	...
Hardin:																					
1 to 19 employees.....	25	3	...	...	...	20	...	...	...	...	...	...	...	1	...	...	1	...	...	...	...
20 to 99 employees.....	3	...	...	...	1	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1
Hawkins:																					
1 to 19 employees.....	15	4	...	...	...	10	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Haywood:																					
1 to 19 employees.....	9	1	...	...	...	5	...	...	1	1	...	...	...	...	...	1	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Henderson:																					
1 to 19 employees.....	16	2	...	...	...	9	...	...	1	...	...	...	...	2	...	...	1	...	1	...	...
20 to 99 employees.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Henry:																					
1 to 19 employees.....	33	9	...	...	...	13	1	...	2	3	...	...	...	5	...	...	...	...	...	...	...
20 to 99 employees.....	4	1	...	...	...	1	...	...	...	1	...	1	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
Hickman:																					
1 to 19 employees.....	11	...	...	...	...	10	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	2	...	...	...	...	1	...	...	...	...	...	2	...	...	1	...	...	...	...	...	...
100 employees and over.....	3	...	...	...	1	...	...	...	...	1	...	...	1	...	...	...	...	...	...	...	...
Houston:																					
1 to 19 employees.....	13	...	...	...	...	13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
Humphreys:																					
1 to 19 employees.....	19	...	...	...	...	16	...	...	1	...	...	...	...	2	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Jackson:																					
1 to 19 employees.....	8	1	...	...	...	7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...



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(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Pickett:																					
1 to 19 employees.....	6	...	...	...	...	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Polk:																					
1 to 19 employees.....	9	...	...	...	...	8	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	2	...	...	...	...	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...
100 employees and over.....	2	...	...	1	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
Putnam:																					
1 to 19 employees.....	34	5	...	...	...	22	1	...	2	...	...	...	...	2	...	...	...	...	...	...	...
20 to 99 employees.....	10	3	...	...	...	6	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	5	...	...	...	2	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1
Rhea:																					
1 to 19 employees.....	18	5	...	...	...	10	1	...	1	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	7	1	...	2	1	2	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...
100 employees and over.....	3	...	...	2	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Roane:																					
1 to 19 employees.....	24	4	...	...	...	13	1	...	3	...	...	...	...	1	...	1	...	...	1	...	...
20 to 99 employees.....	4	1	...	...	...	1	...	1	...	...	...	...	...	...	...	...	1	...	...	...	...
100 employees and over.....	7	...	...	3	...	...	...	1	...	1	...	...	...	...	2	...	...	...	...	...	...
Robertson:																					
1 to 19 employees.....	17	5	...	...	...	6	...	...	2	1	...	...	...	2	...	...	...	...	...	...	1
20 to 99 employees.....	3	...	...	...	...	1	1	...	...	...	...	...	1	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Rutherford:																					
1 to 19 employees.....	24	9	...	1	...	8	...	...	3	...	...	...	...	2	...	...	1	...	...	...	...
20 to 99 employees.....	9	3	...	1	...	1	...	...	1	1	...	...	...	...	...	1	...	...	1	...	...
100 employees and over.....	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Scott:																					
1 to 19 employees.....	38	...	...	1	...	35	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	6	...	...	...	...	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sequatchie:																					
1 to 19 employees.....	17	...	...	...	...	17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sevier:																					
1 to 19 employees.....	21	6	...	...	2	9	1	...	1	...	...	...	1	1	...	...	...	...	...	...	...
20 to 99 employees.....	3	1	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Shelby:																					
1 to 19 employees.....	350	50	...	1	20	29	31	4	66	27	3	2	3	10	6	39	25	2	6	3	23
20 to 99 employees.....	192	44	...	1	11	20	12	7	6	24	3	2	...	7	4	21	14	4	3	1	8
100 employees and over.....	90	21	2	1	5	14	7	8	2	12	...	2	1	...	...	4	5	1	3	...	2
Smith:																					
1 to 19 employees.....	9	2	...	...	...	5	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	2	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Stewart:																					
1 to 19 employees.....	7	...	...	...	...	7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sullivan:																					
1 to 19 employees.....	46	10	...	...	...	11	3	...	6	...	...	...	...	3	5	1	4	1	1	...	1
20 to 99 employees.....	13	5	...	...	...	...	...	1	3	1	...	...	...	...	2	...	...	...	...	1	...
100 employees and over.....	23	1	...	4	3	1	...	2	2	5	...	...	...	3	1	...	...	...	...	...	1
Sumner:																					
1 to 19 employees.....	23	7	1	...	...	7	1	1	2	...	...	...	...	1	...	...	2	...	1	...	...
20 to 99 employees.....	4	3	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	5	...	1	...	1	...	...	...	...	...	...	...	2	...	...	1	...	...	...	...	...
Tipton:																					
1 to 19 employees.....	11	3	...	...	...	4	...	...	1	...	...	...	...	1	...	1	...	...	1	...	...
20 to 99 employees.....	4	2	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1	...	...	...
100 employees and over.....	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Trousdale:																					
1 to 19 employees.....	3	1	...	...	...	...	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Unicoi:																					
1 to 19 employees.....	13	2	...	...	...	5	...	...	1	1	...	...	...	4	...	...	...	...	...	...	...
20 to 99 employees.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Union:																					
1 to 19 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Van Buren:																					
1 to 19 employees.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Warren:																					
1 to 19 employees.....	25	6	...	...	1	13	...	...	2	...	...	...	...	1	...	...	2	...	...	...	...
20 to 99 employees.....	11	1	...	2	...	4	1	...	...	...	...	...	...	1	...	...	1	...	...	...	1
100 employees and over.....	5	...	...	2	1	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
Washington:																					
1 to 19 employees.....	48	17	...	...	1	13	5	...	3	2	...	...	...	3	...	1	1	1	...	...	1
20 to 99 employees.....	12	6	...	1	...	...	...	...	...	...	...	...	...	1	...	1	3	...	...	...	...
100 employees and over.....	12	...	...	2	1	3	2	...	1	...	...	...	1	1	...	1	...	...	...	...	...
Wayne:																					
1 to 19 employees.....	12	1	...	...	...	10	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	3	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...



## MANUFACTURES—AREA STATISTICS

Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954—Continued  
 (Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establish- ments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Weakley:																					
1 to 19 employees.....	26	6	...	...	1	13	...	...	1	1	...	...	2	1	...	...	...	...	...	...	1
20 to 99 employees.....	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
White:																					
1 to 19 employees.....	17	3	...	...	...	11	...	...	2	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	7	...	...	...	...	6	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Williamson:																					
1 to 19 employees.....	16	5	...	...	...	7	...	...	1	...	...	1	...	...	1	...	...	...	...	...	1
20 to 99 employees.....	2	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...
Wilson:																					
1 to 19 employees.....	17	3	...	...	...	7	...	...	1	...	...	...	...	1	...	1	3	...	1	...	...
20 to 99 employees.....	5	3	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
100 employees and over.....	4	...	...	1	2	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...

# TEXAS (254 COUNTIES)

## STANDARD METROPOLITAN AREAS

- CODE
- 1 AMARILLO
  - 2 AUSTIN
  - 3 BEAUMONT-PORT ARTHUR
  - 4 CORPUS CHRISTI
  - 5 DALLAS
  - 6 EL PASO
  - 7 FORT WORTH
  - 8 GALVESTON
  - 9 HOUSTON
  - 10 LAREDO
  - 11 LUBBOCK
  - 12 SAN ANGELO
  - 13 SAN ANTONIO
  - 14 WACO
  - 15 WICHITA FALLS

## LEGEND

● PLACES OF 25,000 TO 100,000

★ PLACES OF 100,000 AND OVER

▨ STANDARD METROPOLITAN AREAS



## MANUFACTURES--AREA STATISTICS

Table 1.—MANUFACTURING EMPLOYMENT AT OPERATING ESTABLISHMENTS AND CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARIES FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS

(This table includes data for all manufacturing employees including those located in central administrative offices and auxiliaries. Tables 2-7 in this report include data for operating establishments only. For explanation of column captions see Introduction)

State, standard metropolitan area, and year <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	(Number)	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
Texas:						
1954.....	419,218	1,668,851	410,364	1,620,344	8,854	48,507
1953 <sup>2</sup> .....	420,468	1,628,705	408,807	1,566,193	11,661	62,512
1952 <sup>2</sup> .....	383,187	1,421,126	376,115	1,387,366	<sup>3</sup> 7,072	<sup>3</sup> 33,760
1951 <sup>2</sup> .....	369,443	1,260,899	362,371	1,227,139	7,072	33,760
1950 <sup>2</sup> .....	341,332	1,038,493	331,820	1,001,317	9,512	37,176
1949 <sup>2</sup> .....	328,769	958,093	319,599	922,269	9,170	35,824
1954						
Standard metropolitan areas:						
Amarillo <sup>4</sup> .....	3,228	12,901	3,147	12,429	81	472
Austin <sup>5</sup> .....	3,388	11,003	3,388	11,003	...	...
Beaumont-Port Arthur <sup>6</sup> .....	25,650	126,452	25,445	125,098	205	1,354
Corpus Christi <sup>7</sup> .....	6,910	29,328	6,721	28,241	189	1,087
Dallas <sup>8</sup> .....	76,163	310,597	72,770	290,812	3,393	19,785
El Paso <sup>9</sup> .....	9,465	29,780	9,232	28,534	233	1,246
Fort Worth <sup>10</sup> .....	48,837	212,871	48,367	211,122	470	1,749
Galveston <sup>11</sup> .....	10,910	54,437	10,910	54,437	...	...
Houston <sup>12</sup> .....	79,147	372,063	77,756	362,976	1,391	9,087
Laredo <sup>13</sup> .....	856	1,658	844	1,602	12	56
Lubbock <sup>14</sup> .....	2,837	10,231	2,818	10,134	19	97
San Angelo <sup>15</sup> .....	1,865	4,741	1,865	4,741	...	...
San Antonio <sup>16</sup> .....	17,935	54,630	17,894	54,372	41	258
Waco <sup>17</sup> .....	7,846	27,257	7,715	26,521	131	736
Wichita Falls <sup>18</sup> .....	3,026	11,073	3,015	11,012	11	61

<sup>1</sup>Employment data for administrative offices and auxiliaries on a State basis are not available for the years prior to 1949. Similar data for standard metropolitan areas are available only for 1954.

<sup>2</sup>The employment figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufacturers. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufacturers volume for this period. The employment figures for administrative and auxiliary units were compiled chiefly from Bureau of Old-Age and Survivors Insurance records and are not strictly comparable with the figures for these units that were collected by the Bureau of the Census for the year 1954.

<sup>3</sup>The 1951 data are shown for 1952 since auxiliary and administrative unit data were not collected in 1952.

<sup>4</sup>The Amarillo Standard Metropolitan Area consists of Potter and Randall Counties, Texas.

<sup>5</sup>The Austin Standard Metropolitan Area consists of Travis County, Texas.

<sup>6</sup>The Beaumont-Port Arthur Standard Metropolitan Area consists of Jefferson County, Texas.

<sup>7</sup>The Corpus Christi Standard Metropolitan Area consists of Nueces County, Texas.

<sup>8</sup>The Dallas Standard Metropolitan Area consists of Dallas County, Texas.

<sup>9</sup>The El Paso Standard Metropolitan Area consists of El Paso County, Texas.

<sup>10</sup>The Fort Worth Standard Metropolitan Area consists of Tarrant County, Texas.

<sup>11</sup>The Galveston Standard Metropolitan Area consists of Galveston County, Texas.

<sup>12</sup>The Houston Standard Metropolitan Area consists of Harris County, Texas.

<sup>13</sup>The Laredo Standard Metropolitan Area consists of Webb County, Texas.

<sup>14</sup>The Lubbock Standard Metropolitan Area consist of Lubbock County, Texas.

<sup>15</sup>The San Angelo Standard Metropolitan Area consists of Tom Green County, Texas.

<sup>16</sup>The San Antonio Standard Metropolitan Area consists of Bexar County, Texas.

<sup>17</sup>The Waco Standard Metropolitan Area consists of McLennan County, Texas.

<sup>18</sup>The Wichita Falls Standard Metropolitan Area consists of Wichita County, Texas.



Table 2.—GENERAL STATISTICS FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Year	Establish- ments, number	All employees		Production workers		Value added by manufacture (\$1,000)			
		Number	Payroll (\$1,000)	Number	Wages (\$1,000)				
TEXAS									
1954 <sup>1</sup> .....	8,890	{	410,364	1,620,344	313,938	1,109,061	3,501,706		
1953 <sup>2</sup> .....			408,807	1,566,193	319,637	1,121,836	3,486,240		
1952 <sup>2</sup> .....			376,115	1,387,366	297,290	1,001,217	3,206,103		
1951 <sup>2</sup> .....			362,371	1,227,139	289,923	899,081	2,923,064		
1950 <sup>2</sup> .....			(NA)	331,820	1,001,317	260,696	720,829	2,268,663	
1949 <sup>2</sup> .....	{	{	319,599	922,269	250,107	651,438	1,813,914		
1947.....			297,054	755,433	242,015	558,422	1,727,476		
1939.....			163,978	196,747	125,115	126,364	448,523		
1937.....			152,055	175,785	129,501	132,505	439,854		
1935.....			117,275	125,069	99,124	90,202	295,128		
1933.....	3,648	{	(NA)	(NA)	{	91,374	73,427	237,307	
1931.....	4,326		(NA)	{	94,867	99,061	272,935		
1929.....	5,198		156,143	201,732	134,498	151,827	460,307		
1927.....	4,065		{	{	116,763	130,409	363,653		
1925.....	3,606				(NA)	(NA)	106,792	116,363	392,809
1923.....	3,693	{	{	{	102,358	111,462	331,740		
1921.....	3,566				88,707	103,946	272,396		
1919.....	5,390				124,110	146,230	106,268	114,935	295,709
1914.....	5,062				86,232	59,112	74,765	44,762	108,024
1909.....	4,588				80,079	48,775	70,230	37,907	94,717
1904.....	3,158	54,819	30,587	49,066	24,469	58,925			
1899.....	3,107	41,465	19,830	38,604	16,912	38,506			
DALLAS STANDARD METROPOLITAN AREA									
1954 <sup>1</sup> .....	1,369	72,770	290,812	52,757	181,510	508,271			
1947.....	(NA)	38,828	(NA)	(NA)	(NA)	238,839			
FORT WORTH STANDARD METROPOLITAN AREA									
1954 <sup>1</sup> .....	601	48,367	211,122	37,308	148,799	368,152			
1947.....	(NA)	32,039	(NA)	(NA)	(NA)	146,501			
HOUSTON STANDARD METROPOLITAN AREA									
1954 <sup>1</sup> .....	1,401	77,756	362,976	57,532	243,154	868,747			
1947.....	915	58,254	181,794	45,671	131,073	384,718			
1939.....	620	27,116	41,566	22,600	30,423	106,608			
1929.....	475	26,213	37,909	22,131	28,097	93,498			
1919.....	422	(NA)	(NA)	11,411	12,173	31,964			

NA Not available.

<sup>1</sup>The 1954 figures include data for establishments engaged in the processing and distribution of fluid milk, Industry Group 202, Dairy Products. These establishments were not included in the figures for the Annual Survey years 1949-1953 or earlier Census years. In addition, the 1954 Census and Annual Survey years include data for Logging camps and contractors, Industry 2411, which were not included within the scope of the 1947 Census. See footnotes to Table 4 for comparable 1954 and 1947 totals. There were also a number of changes in the definition of manufacturing industries during earlier Census years that affect the comparability of the historical series. Among the more important of these were: figures for 1935 and later years exclude data for "Railroad repair shops" and "Manufactured gas" which were included in 1899-1933 figures; the minimum size of establishment included for 1954 and 1947 was one employee, for 1939-1921 manufacturing establishments reporting value of shipments of \$5,000 or more were within scope whereas for 1919 and earlier years the cut-off was \$500. (This change in procedure has not appreciably affected the comparability of the historical data except for the figures on number of establishments.)

<sup>2</sup>The employment and payroll figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period.

## MANUFACTURES--AREA STATISTICS

Table 3.--GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947

(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
Texas, total.....	7,711,194	8,890	410,364	1,620,344	313,938	639,565	1,109,061	3,501,706	452,214	( <sup>1</sup> )	( <sup>1</sup> )
STANDARD METROPOLITAN AREAS											
Amarillo.....	87,140	125	3,147	12,429	2,074	4,392	7,556	24,773	18,505	2,463	15,341
Austin.....	160,980	143	3,388	11,003	2,280	4,619	6,318	17,816	961	2,554	11,793
Beaumont-Port Arthur.....	195,083	190	25,445	125,098	20,260	40,117	94,567	222,802	66,999	23,181	177,508
Corpus Christi.....	165,471	150	6,721	28,241	4,589	11,298	17,990	71,593	6,424	4,577	41,599
Dallas.....	614,799	1,369	72,770	290,812	52,757	107,581	181,510	508,271	20,021	38,828	238,839
El Paso.....	194,968	180	9,232	28,534	7,581	15,176	21,032	51,252	16,883	6,176	35,175
Fort Worth.....	361,253	601	48,367	211,122	37,308	73,993	148,799	368,152	16,527	32,039	146,501
Galveston.....	113,066	87	10,910	54,437	8,104	15,717	37,999	156,569	28,332	8,716	71,361
Houston.....	806,701	1,401	77,756	362,976	57,532	118,601	243,154	868,747	87,235	58,254	384,718
Laredo.....	56,141	33	844	1,602	673	1,110	1,042	2,991	118	1,025	2,906
Lubbock.....	101,048	126	2,818	10,134	1,900	4,294	5,827	22,902	2,042	1,470	8,558
San Angelo.....	58,929	77	1,865	4,741	1,561	2,713	3,460	8,211	457	827	4,746
San Antonio.....	500,460	551	17,894	54,372	13,186	27,186	33,715	111,139	5,098	15,514	68,931
Waco.....	130,194	147	7,715	26,521	5,898	12,240	18,273	62,764	7,739	6,451	32,621
Wichita Falls.....	98,493	101	3,015	11,012	2,280	4,670	7,343	26,350	1,058	2,972	21,648
COUNTIES											
Anderson.....	31,875	34	851	2,326	703	1,387	1,795	4,953	170	917	2,910
Andrews.....	5,002	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Angelina.....	36,032	65	4,295	15,512	3,607	7,759	11,878	32,627	3,289	4,522	23,565
Aransas.....	4,252	5	208	(D)	167	(D)	(D)	(D)	(D)	112	(D)
Archer.....	6,816	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...	...
Armstrong.....	2,215	...	...	...	...	...	...	...	...	...	...
Atascosa.....	20,048	6	33	71	28	63	62	104	3	16	66
Austin.....	14,663	11	90	187	67	116	129	233	31	116	431
Bailey.....	7,592	4	42	124	37	93	109	283	53	47	152
Bandera.....	4,410	7	36	59	31	50	49	99	2	(D)	(D)
Bastrop.....	19,622	17	671	1,961	579	1,180	1,362	2,342	170	387	1,179
Baylor.....	6,875	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	17	56
Bee.....	18,174	6	124	(D)	90	(D)	(D)	(D)	(D)	95	320
Bell.....	73,824	61	1,917	5,449	1,580	3,249	3,807	10,927	471	820	3,742
Bexar.....	500,460	551	17,894	54,372	13,186	27,186	33,715	111,139	5,098	15,514	68,931
Blanco.....	3,780	3	16	32	13	23	22	106	...	(D)	(D)
Borden.....	1,106	...	...	...	...	...	...	...	...	...	...
Bosque.....	11,836	8	54	138	41	93	102	155	8	99	(D)
Bowie.....	61,966	59	4,279	14,094	3,540	7,055	10,634	21,793	2,144	2,536	8,719
Brazoria.....	46,549	26	6,654	35,129	4,686	9,345	23,043	147,257	29,221	4,023	(D)
Brazos.....	38,390	27	481	1,551	327	690	863	2,436	1,805	308	1,368
Brewster.....	7,309	8	31	(D)	24	(D)	(D)	(D)	(D)	19	64
Briscoe.....	3,528	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	30	94
Brooks.....	9,195	4	87	292	61	144	200	1,012	39	19	(D)
Brown.....	28,607	29	604	1,451	526	1,021	1,094	2,438	232	442	1,691
Burleson.....	13,000	8	47	124	39	82	91	273	12	260	(D)
Burnet.....	10,356	4	12	36	7	13	16	59	3	46	118
Caldwell.....	19,350	15	144	314	117	231	218	494	13	153	402
Calhoun.....	9,222	8	1,608	7,593	1,256	2,641	5,620	17,329	45,352	69	(D)
Callahan.....	9,087	6	61	(D)	44	(D)	(D)	(D)	(D)	47	(D)
Cameron.....	125,170	112	2,977	7,152	2,298	4,669	4,633	14,644	954	2,461	9,967
Camp.....	8,740	13	221	410	205	407	368	657	14	507	1,225
Carson.....	6,852	4	571	(D)	394	(D)	(D)	(D)	(D)	(D)	(D)
Cass.....	26,732	22	288	501	267	465	435	1,090	97	1,008	2,913
Castro.....	5,417	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	8	22
Chambers.....	7,871	5	19	48	15	31	34	133	(D)	(D)	(D)
Cherokee.....	38,694	66	1,564	3,057	1,431	2,901	2,466	5,434	255	1,643	4,226
Childress.....	12,123	8	48	137	32	100	76	223	(D)	126	568
Clay.....	9,896	5	57	112	48	91	88	145	5	87	(D)
Cochran.....	5,928	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Coke.....	4,045	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Coleman.....	15,503	13	224	558	185	396	419	857	120	220	706
Collin.....	41,692	27	1,554	3,533	1,436	2,732	2,925	5,597	500	1,117	4,327
Collingsworth.....	9,139	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	28	134
Colorado.....	17,576	16	275	886	216	428	531	4,260	268	113	437
Comal.....	16,357	20	1,730	5,038	1,612	3,621	4,369	9,555	1,141	1,516	6,199
Comanche.....	15,516	12	161	407	121	250	266	606	79	124	983
Concho.....	5,078	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Cooke.....	22,146	31	1,392	2,503	1,060	1,917	2,052	4,046	3,370	281	924
Coryell.....	16,284	7	54	107	45	99	94	272	37	53	109

See footnotes at end of table.

Table 3.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947—Continued

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
Cottle.....	6,099	4	20	55	11	20	22	105	(D)	29	155
Crane.....	3,965	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Crockett.....	3,981	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Crosby.....	9,582	5	105	254	94	159	133	641	5	(D)	(D)
Culberson.....	1,825	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...	...
Dallam.....	7,640	10	116	283	87	192	162	479	25	139	774
Dallas.....	614,799	1,369	72,770	290,812	52,757	107,581	181,510	508,271	20,021	38,828	238,839
Dawson.....	19,113	13	89	293	71	144	234	620	16	199	(D)
Deaf Smith.....	9,111	17	94	269	74	161	217	554	39	109	738
Delta.....	8,964	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	58	(D)
Denton.....	41,365	34	1,395	3,897	1,133	2,212	2,761	8,084	696	910	4,683
De Witt.....	22,973	22	1,121	2,799	959	1,904	1,946	3,343	274	924	3,348
Dickens.....	7,177	3	23	46	20	40	41	88	1	(D)	(D)
Dimmit.....	10,654	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	29	(D)
Donley.....	6,216	5	54	216	27	61	88	406	35	16	59
Duval.....	15,643	3	14	(D)	11	(D)	(D)	(D)	(D)	(D)	(D)
Eastland.....	23,942	35	657	1,342	608	1,236	1,196	2,362	80	434	1,129
Ector.....	42,102	55	895	3,941	641	1,348	2,461	11,145	331	265	3,114
Edwards.....	2,908	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...	...
Ellis.....	45,645	52	2,065	5,340	1,754	3,748	4,158	9,697	520	1,394	5,229
El Paso.....	194,968	180	9,232	28,534	7,581	15,176	21,032	51,252	16,883	6,176	35,175
Erath.....	18,434	14	176	402	150	287	321	760	31	91	323
Falls.....	26,724	9	107	254	89	184	193	704	22	94	413
Fannin.....	31,253	27	907	2,308	829	1,699	1,962	2,885	637	630	2,338
Fayette.....	24,176	19	216	413	186	373	343	939	97	211	1,313
Fisher.....	11,023	4	433	1,846	365	911	1,518	9,542	433	403	4,459
Floyd.....	10,535	6	53	131	43	85	96	245	14	49	(D)
Foard.....	4,216	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Fort Bend.....	31,056	13	949	(D)	803	(D)	(D)	(D)	(D)	817	(D)
Franklin.....	6,257	8	194	353	176	328	289	641	31	23	80
Freestone.....	15,696	13	179	484	155	323	349	692	9	92	139
Frio.....	10,357	4	18	45	13	25	31	101	4	14	44
Gaines.....	8,909	6	60	246	51	120	206	1,442	5	52	734
Galveston.....	113,066	87	10,910	54,437	8,104	15,717	37,999	156,569	28,332	8,716	71,361
Garza.....	6,281	5	411	(D)	398	(D)	(D)	(D)	(D)	284	(D)
Gillespie.....	10,520	13	129	284	104	213	194	556	48	169	(D)
Glasscock.....	1,089	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...	...
Goliad.....	6,219	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	14	52
Gonzales.....	21,164	20	569	932	508	770	704	1,882	82	582	1,803
Gray.....	24,728	20	950	4,388	718	1,562	3,219	13,611	362	609	5,900
Grayson.....	70,467	78	4,187	13,223	3,295	6,981	9,152	31,826	1,362	3,576	25,401
Gregg.....	61,258	82	2,889	11,177	2,010	4,250	6,679	12,253	4,677	2,365	9,806
Grimes.....	15,135	14	115	255	92	188	171	545	24	289	978
Guadalupe.....	25,392	22	546	1,203	473	921	929	2,212	381	393	1,635
Hale.....	28,211	29	593	2,143	399	895	1,135	5,351	212	423	3,303
Hall.....	10,930	3	40	(D)	27	(D)	(D)	(D)	(D)	102	(D)
Hamilton.....	10,660	13	69	171	49	123	126	457	30	65	614
Hansford.....	4,202	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	27	79
Hardeman.....	10,212	6	372	1,451	315	744	1,173	4,506	261	318	2,606
Hardin.....	19,535	32	1,209	2,765	1,113	2,339	2,440	3,545	158	767	2,252
Harris.....	806,701	1,401	77,756	362,976	57,532	118,601	243,154	868,747	87,235	58,254	384,718
Harrison.....	47,745	60	3,071	9,634	2,454	5,054	6,626	17,587	10,389	2,584	7,977
Hartley.....	1,913	...	...	...	...	...	...	...	...	...	...
Haskell.....	13,736	5	114	268	89	216	237	614	12	44	(D)
Hays.....	17,840	18	150	379	115	263	261	788	25	113	495
Hemphill.....	4,123	4	12	26	9	19	22	27	...	44	128
Henderson.....	23,405	18	456	1,097	402	777	885	2,189	236	311	911
Hidalgo.....	160,446	116	2,311	4,881	1,915	3,812	3,538	9,980	357	3,117	10,303
Hill.....	31,282	18	690	1,416	609	1,200	1,130	1,936	39	708	2,283
Hockley.....	20,407	8	74	148	60	106	123	277	5	136	(D)
Hood.....	5,287	4	110	190	100	176	152	263	7	(D)	(D)
Hopkins.....	23,490	21	416	1,125	296	673	720	3,538	182	293	2,165
Houston.....	22,825	14	205	417	182	369	354	529	54	792	1,767
Howard.....	26,722	17	710	3,268	535	1,138	2,416	14,461	2,282	542	(D)
Hudspeth.....	4,298	...	...	...	...	...	...	...	...	...	...
Hunt.....	42,731	50	2,280	7,371	1,834	3,674	5,481	10,489	259	1,230	4,778
Hutchinson.....	31,580	22	3,062	14,988	2,162	4,287	10,310	54,057	3,629	3,227	69,171
Irion.....	1,590	...	...	...	...	...	...	...	...	(D)	(D)
Jack.....	7,755	5	58	161	45	89	101	158	35	34	(D)
Jackson.....	12,916	9	155	324	130	262	252	577	39	59	246

See footnotes at end of table.



Table 3.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947—Continued

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
Jasper.....	20,049	53	914	1,999	821	1,440	1,717	2,954	965	1,109	3,452
Jeff Davis.....	2,090	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...	...
Jefferson.....	195,083	190	25,445	125,098	20,260	40,117	94,567	222,802	66,999	23,181	177,508
Jim Hogg.....	5,389	5	14	13	10	10	9	27	...	(D)	(D)
Jim Wells.....	27,991	14	103	259	78	148	186	392	17	88	469
Johnson.....	31,390	36	1,238	2,790	1,108	2,168	2,337	4,522	204	381	962
Jones.....	22,147	13	148	492	117	330	388	974	43	162	880
Karnes.....	17,139	9	84	241	64	160	151	656	6	64	337
Kaufman.....	31,170	24	926	2,146	808	1,473	1,666	4,594	254	415	1,274
Kendall.....	5,423	4	18	35	11	19	26	57	5	(D)	(D)
Kenedy.....	632	...	...	...	...	...	...	...	...	...	...
Kent.....	2,249	...	...	...	...	...	...	...	...	...	...
Kerr.....	14,022	14	105	206	73	138	127	546	37	47	178
Kimble.....	4,619	5	28	56	20	26	31	75	15	16	44
King.....	870	...	...	...	...	...	...	...	...	...	...
Kinney.....	2,668	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Kleberg.....	21,991	10	127	377	85	191	221	505	87	52	239
Knox.....	10,082	4	13	34	8	16	22	59	(D)	51	(D)
Lamar.....	43,033	42	1,713	4,654	1,412	2,813	3,396	13,608	559	1,180	4,743
Lamb.....	20,015	10	86	302	66	181	212	958	20	108	210
Lampasas.....	9,929	7	142	237	115	123	142	714	151	147	(D)
La Salle.....	7,485	...	...	...	...	...	...	...	...	(D)	(D)
Lavaca.....	22,159	12	294	694	257	540	578	1,563	87	184	745
Lee.....	10,144	7	96	(D)	89	(D)	(D)	(D)	(D)	200	(D)
Leon.....	12,024	7	51	77	47	73	73	119	3	76	176
Liberty.....	26,729	51	832	1,569	774	1,358	1,368	2,475	220	744	1,921
Limestone.....	25,251	15	404	841	354	657	689	823	58	362	1,246
Lipscomb.....	3,658	...	...	...	...	...	...	...	...	(D)	(D)
Live Oak.....	9,054	3	35	(D)	30	(D)	(D)	(D)	(D)	44	(D)
Llano.....	5,377	6	102	301	84	140	203	474	67	70	289
Loving.....	227	...	...	...	...	...	...	...	...	...	...
Lubbock.....	101,048	126	2,818	10,134	1,900	4,294	5,827	22,902	2,042	1,470	8,558
Lynn.....	11,030	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6	28
McCulloch.....	11,701	11	476	1,327	367	679	898	2,150	34	97	322
McLennan.....	130,194	147	7,715	26,521	5,898	12,240	18,273	62,764	7,739	6,451	32,621
McMullen.....	1,187	...	...	...	...	...	...	...	...	...	...
Madison.....	7,996	5	34	74	25	46	44	159	9	(D)	(D)
Marion.....	10,172	15	255	532	168	302	259	1,386	49	496	1,702
Martin.....	5,541	4	12	33	9	20	26	46	...	(D)	(D)
Mason.....	4,945	3	19	27	18	25	24	55	(D)	14	35
Matagorda.....	21,559	18	162	445	121	292	316	607	77	284	1,622
Maverick.....	12,292	7	257	402	229	353	346	701	11	262	449
Medina.....	17,013	13	348	865	297	590	661	1,756	48	123	(D)
Menard.....	4,175	...	...	...	...	...	...	...	...	(D)	(D)
Midland.....	25,785	31	421	1,811	237	526	858	3,689	146	70	358
Milam.....	23,585	9	1,104	4,938	839	1,794	3,717	15,391	14,084	98	503
Mills.....	5,999	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Mitchell.....	14,357	8	223	(D)	198	(D)	(D)	(D)	(D)	208	(D)
Montague.....	17,070	15	276	690	225	447	482	1,099	41	303	1,228
Montgomery.....	24,504	66	1,460	3,581	1,347	2,950	2,931	7,321	310	2,135	7,510
Moore.....	13,349	9	1,378	6,712	1,131	2,399	5,358	24,929	1,643	693	7,436
Morris.....	9,433	14	1,720	7,185	1,593	3,081	6,400	18,384	3,872	568	1,089
Motley.....	3,963	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	10	42
Nacogdoches.....	30,326	54	1,643	4,246	1,395	2,827	2,986	6,730	667	1,854	5,748
Navarro.....	39,916	39	1,922	5,423	1,683	3,312	4,297	8,789	420	1,408	4,080
Newton.....	10,832	29	382	724	360	719	650	1,440	67	834	2,543
Nolan.....	19,808	19	1,112	4,501	864	2,024	3,234	18,563	478	695	5,404
Nueces.....	165,471	150	6,721	28,241	4,589	11,298	17,990	71,593	6,424	4,577	41,599
Ochiltree.....	6,024	10	41	127	27	54	79	277	21	62	224
Oldham.....	1,672	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...	...
Orange.....	40,567	39	5,380	25,541	3,813	7,539	16,128	76,285	12,761	3,835	16,598
Palo Pinto.....	17,154	24	770	2,276	646	1,278	1,691	3,747	210	353	1,147
Panola.....	19,250	13	91	169	82	157	150	286	51	458	989
Parker.....	21,528	20	487	1,487	368	777	870	3,607	157	346	1,586
Parmer.....	5,787	3	8	25	6	13	15	52	(D)	(D)	(D)
Pecos.....	9,939	4	21	52	13	30	39	161	18	22	102
Polk.....	16,194	44	1,147	2,769	1,048	2,375	2,476	5,143	168	1,369	4,424
Potter.....	73,366	118	3,115	12,309	2,050	4,332	7,463	24,586	18,488	2,426	14,985
Presidio.....	7,354	5	17	39	15	33	35	78	...	48	(D)
Rains.....	4,266	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...	...

See footnotes at end of table.

Table 3.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947—Continued

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
Randall.....	13,774	7	32	120	24	60	93	187	17	37	(D)
Reagan.....	3,127	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Real.....	2,479	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...	...
Red River.....	21,851	26	224	471	195	319	345	942	48	263	812
Reeves.....	11,745	12	174	618	137	347	420	1,548	68	68	275
Refugio.....	10,113	3	13	17	12	17	16	19	(D)	(D)	(D)
Roberts.....	1,031	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Robertson.....	19,908	13	74	173	59	124	130	335	32	71	315
Rockwall.....	6,156	4	90	(D)	71	(D)	(D)	(D)	(D)	10	32
Runnels.....	16,771	9	103	331	71	207	230	723	128	55	351
Rusk.....	42,348	38	588	1,231	529	986	1,041	2,232	212	585	1,353
Sabine.....	8,568	10	950	2,489	902	2,304	2,192	4,039	492	955	(D)
San Augustine.....	8,837	13	94	145	87	142	137	304	25	182	478
San Jacinto.....	7,172	15	131	191	124	190	159	379	25	85	197
San Patricio.....	35,842	13	2,337	(D)	1,949	(D)	(D)	(D)	(D)	183	987
San Saba.....	8,666	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	29	81
Schleicher.....	2,852	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Scurry.....	22,779	9	64	178	33	65	91	388	20	14	34
Shackelford.....	5,001	6	16	45	13	29	38	84	29	(D)	(D)
Shelby.....	23,479	31	1,007	2,232	888	2,070	1,853	2,907	766	868	2,038
Sherman.....	2,443	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...	...
Smith.....	74,701	101	3,726	12,520	3,064	6,062	9,391	23,664	3,897	2,459	11,676
Somervell.....	2,542	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Starr.....	13,948	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Stephens.....	10,597	6	100	317	82	149	196	495	22	123	779
Sterling.....	1,282	...	...	...	...	...	...	...	...	(D)	(D)
Stonewall.....	3,679	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Sutton.....	3,746	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Swisher.....	8,249	5	35	102	29	64	83	195	32	(D)	(D)
Tarrant.....	361,253	601	48,367	211,122	37,308	73,993	148,799	368,152	16,527	32,039	146,501
Taylor.....	63,370	73	2,532	7,443	1,818	3,718	4,482	20,753	711	1,294	5,068
Terrell.....	3,189	...	...	...	...	...	...	...	...	80	(D)
Terry.....	13,107	6	102	(D)	85	(D)	(D)	(D)	(D)	212	2,983
Throckmorton.....	3,618	...	...	...	...	...	...	...	...	(D)	(D)
Titus.....	17,302	20	576	2,186	434	1,011	1,470	5,753	973	368	451
Tom Green.....	58,929	77	1,865	4,741	1,561	2,713	3,460	8,211	457	827	4,746
Travis.....	160,980	143	3,388	11,003	2,280	4,619	6,318	17,816	961	2,554	11,793
Trinity.....	10,040	29	499	1,294	443	930	1,086	1,925	31	778	2,249
Tyler.....	11,292	31	367	661	329	635	586	1,198	59	631	1,662
Upshur.....	20,822	22	217	421	200	372	361	763	12	498	1,501
Upton.....	5,307	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	13	50
Uvalde.....	16,015	10	209	400	160	282	277	1,294	49	68	245
Val Verde.....	16,635	7	139	285	123	227	239	612	8	59	239
Van Zandt.....	22,593	19	475	1,292	424	870	1,092	4,145	273	(D)	(D)
Victoria.....	31,241	25	1,000	(D)	571	(D)	(D)	(D)	(D)	254	1,322
Walker.....	20,163	25	377	720	336	669	677	1,252	54	528	1,670
Waller.....	11,961	8	32	56	28	48	50	103	1	(D)	(D)
Ward.....	13,346	8	226	852	102	225	362	2,501	91	178	3,140
Washington.....	20,542	21	497	1,202	424	872	900	1,951	175	364	1,096
Webb.....	56,141	33	844	1,602	673	1,110	1,042	2,991	118	1,025	2,906
Wharton.....	36,077	26	348	978	265	598	666	2,722	64	354	1,386
Wheeler.....	10,317	7	118	454	87	199	329	1,208	143	50	311
Wichita.....	98,493	101	3,015	11,012	2,280	4,670	7,343	26,350	1,058	2,972	21,648
Wilbarger.....	20,552	18	459	1,222	397	834	1,042	2,023	183	424	2,068
Willacy.....	20,920	11	226	480	201	402	408	869	75	226	1,041
Williamson.....	38,853	31	876	2,726	743	1,584	2,154	9,802	1,204	601	2,431
Wilson.....	14,672	5	172	452	161	321	403	817	(D)	175	(D)
Winkler.....	10,064	6	55	237	47	104	201	437	3	50	(D)
Wise.....	16,141	14	176	427	159	330	371	737	99	182	549
Wood.....	21,308	30	221	483	185	314	312	1,141	65	392	1,078
Yoakum.....	4,339	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Young.....	16,810	14	146	409	107	233	269	1,051	42	243	1,688
Zapata.....	4,405	...	...	...	...	...	...	...	...	...	...
Zavala.....	11,201	7	154	457	123	217	335	1,120	20	247	768
CITIES WITH 10,000 INHABITANTS OR MORE											
Abilene.....	45,570	67	2,301	6,554	1,631	3,318	3,820	19,458	377	1,214	4,776
Alice.....	16,449	14	103	259	78	148	186	392	17	(NA)	(NA)
Amarillo.....	74,246	114	2,623	(D)	1,611	(D)	(D)	(D)	(D)	1,962	(D)
Austin.....	132,459	130	3,095	10,136	2,064	4,141	5,743	15,993	691	2,179	10,241

See footnotes at end of table.



## MANUFACTURES—AREA STATISTICS

Table 3.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947—Continued

Area, county, and place	Popula- tion, 1950	Estab- lish- ments, number	1954							1947	
			All employees		Production workers			Value added by manu- facture	Capital expendi- tures, new	All employees, number	Value added by manu- facture
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
Baytown.....	22,983	13	5,362	(D)	3,528	(D)	(D)	(D)	(D)	(NA)	(NA)
Beaumont.....	94,014	109	3,491	12,902	2,458	5,240	7,975	21,040	1,419	2,901	15,776
Bellaire.....	10,173	3	3	6	2	4	4	4	...	(NA)	(NA)
Big Spring.....	17,286	15	629	(D)	460	(D)	(D)	(D)	(D)	(D)	(D)
Borger.....	18,059	14	224	773	116	247	378	1,276	51	2,081	(D)
Brownsville.....	36,066	25	924	1,853	827	1,681	1,493	4,376	268	408	1,650
Brownwood.....	20,181	25	515	1,218	446	888	911	2,047	184	(D)	(D)
Bryan.....	18,102	20	330	1,143	207	498	589	2,340	215	(D)	(D)
Cleburne.....	12,905	17	909	2,007	818	1,620	1,713	3,260	114	320	840
Corpus Christi.....	108,287	129	3,981	15,379	2,637	7,296	9,660	34,482	2,104	2,651	27,597
Corsicana.....	19,211	33	1,813	5,212	1,580	3,115	4,119	8,461	383	1,365	(D)
Dallas.....	434,462	1,206	67,222	269,529	48,445	98,616	166,626	474,265	17,151	34,137	209,045
Del Rio.....	14,211	7	139	285	122	226	239	612	8	59	239
Denison.....	17,504	27	1,020	2,911	840	1,675	2,119	9,997	259	972	(D)
Denton.....	21,372	24	1,162	3,286	922	1,818	2,313	6,868	520	755	4,370
Edinburg.....	12,383	10	207	587	135	362	363	2,024	40	(NA)	(NA)
El Paso.....	130,485	170	9,063	28,274	7,436	14,979	20,847	50,704	16,825	5,028	28,982
Fort Worth.....	278,778	523	39,749	172,123	30,844	61,006	122,233	284,148	10,416	30,495	133,952
Gainesville.....	11,246	24	986	2,154	910	1,795	1,891	3,452	168	(NA)	(NA)
Galveston.....	66,568	54	2,822	10,865	2,214	4,208	8,025	20,747	384	4,103	21,924
Garland.....	10,571	27	3,134	13,020	2,319	4,852	8,752	17,885	1,013	(NA)	(NA)
Grand Prairie.....	14,594	31	957	3,475	828	1,677	2,753	6,488	301	(NA)	(NA)
Greenville.....	14,727	37	1,161	3,008	916	1,827	2,151	4,055	189	1,090	4,013
Harlingen.....	23,229	48	1,303	3,497	847	1,840	1,858	5,921	536	979	4,055
Highland Park.....	11,405	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Houston.....	596,163	1,239	55,198	240,563	40,768	84,684	158,183	539,846	45,306	40,211	256,219
Kingsville.....	16,898	6	42	118	27	52	72	231	28	(NA)	(NA)
Lamesa.....	10,704	13	89	293	71	144	234	620	16	(NA)	(NA)
Laredo.....	51,910	29	735	1,326	584	952	830	2,371	97	682	(D)
Longview.....	24,502	35	782	2,755	544	1,122	1,559	5,281	560	632	2,659
Lubbock.....	71,747	109	2,646	9,544	1,769	4,016	5,426	21,716	1,989	1,073	6,599
Lufkin.....	15,135	37	2,188	7,975	1,704	3,449	5,408	13,207	464	(D)	(D)
McAllen.....	20,067	29	472	964	364	715	657	2,138	68	921	2,125
McKinney.....	10,560	8	127	376	70	149	188	662	32	(D)	(D)
Marshall.....	22,327	45	1,967	5,060	1,635	3,292	3,717	9,637	1,238	1,191	3,946
Mercedes.....	10,081	13	99	212	82	137	166	337	18	(NA)	(NA)
Midland.....	21,713	25	322	1,294	172	381	623	2,476	101	(NA)	(NA)
Mission.....	10,765	5	151	319	136	276	239	571	49	(NA)	(NA)
Nacodoches.....	12,327	29	1,371	3,635	1,145	2,312	2,439	5,476	564	(NA)	(NA)
New Braunfels.....	12,210	20	1,730	5,038	1,612	3,621	4,369	9,555	1,141	(NA)	(NA)
Odessa.....	29,495	40	386	1,534	267	554	939	3,253	63	(NA)	(NA)
Orange.....	21,174	26	2,455	(D)	1,980	(D)	(D)	(D)	(D)	(NA)	(NA)
Palestine.....	12,503	21	352	729	264	495	483	1,333	83	559	1,819
Pampa.....	16,583	12	176	623	121	271	381	1,215	53	115	(D)
Paris.....	21,643	36	1,471	(D)	1,191	(D)	(D)	(D)	(D)	1,145	4,638
Pasadena.....	22,483	19	2,032	10,548	1,533	3,449	7,533	24,862	3,301	(NA)	(NA)
Plainview.....	14,044	25	555	2,065	366	824	1,071	5,182	202	(NA)	(NA)
Port Arthur.....	57,530	38	6,465	(D)	5,549	(D)	(D)	(D)	(D)	6,133	(D)
San Angelo.....	52,093	73	1,793	4,478	1,504	2,587	3,291	7,726	437	816	4,705
San Antonio.....	408,442	536	17,603	53,612	12,955	26,662	33,207	110,086	5,017	14,411	62,828
San Benito.....	13,271	5	59	182	36	91	92	283	24	(NA)	(NA)
Sherman.....	20,150	32	1,966	7,220	1,354	3,081	4,451	16,442	675	1,615	12,509
Snyder.....	12,010	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Sweetwater.....	13,619	16	829	(D)	632	(D)	(D)	(D)	(D)	253	(D)
Temple.....	25,467	46	1,387	4,156	1,098	2,225	2,778	7,988	348	669	2,995
Terrell.....	11,544	18	857	2,022	750	1,367	1,568	4,393	249	188	736
Texarkana <sup>2</sup> .....	24,753	39	1,509	3,977	1,187	2,379	2,686	8,561	226	1,145	4,545
Texas City.....	16,620	18	7,962	43,293	5,783	11,334	29,746	135,241	27,924	(NA)	(NA)
Tyler.....	38,968	77	2,825	9,491	2,234	4,354	6,686	19,001	3,607	1,859	9,247
University Park.....	24,275	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Vernon.....	12,651	17	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Victoria.....	16,126	19	368	(D)	229	(D)	(D)	(D)	(D)	229	(D)
Waco.....	84,706	121	6,424	21,858	5,173	10,850	16,266	55,120	1,412	3,703	13,001
Waxahachie.....	11,204	21	793	2,131	674	1,358	1,671	3,990	100	(NA)	(NA)
White Settlement.....	10,827	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Wichita Falls.....	68,042	84	2,750	9,956	2,063	4,121	6,599	24,030	1,014	2,812	20,452

D Withheld to avoid disclosing figures for individual companies.

NA Detail figures are not available, but are included in totals for the area.

<sup>1</sup>The 1947 data are not strictly comparable with the figures shown for 1954 due to differences in coverage of loggers and fluid milk distributors.

See discussion in Introduction and footnotes to Table 4.

<sup>2</sup>General statistics for Texarkana City in Miller County, Arkansas, are shown in Table 3 for the State of Arkansas.



Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954							1947				
		Establish- ments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
	All industries, total <sup>1</sup> ...	8,890	2,612	410,364	1,620,344	313,938	639,565	1,109,061	3,501,706	( <sup>2</sup> )	452,214	( <sup>3</sup> )	( <sup>3</sup> )
20	Food and kindred products...	1,921	644	67,862	226,314	44,114	92,581	123,366	533,060	( <sup>2</sup> )	28,914	( <sup>3</sup> )	( <sup>3</sup> )
201	Meat products.....	294	106	14,981	50,251	11,594	23,623	35,391	92,996	( <sup>2</sup> )	3,822	12,122	57,940
2011	Meat packing, plants.....	153	53	10,464	40,280	7,795	16,814	28,121	68,548	( <sup>2</sup> )	2,952	10,097	49,503
2013	Prepared meats.....	51	14	1,354	4,212	940	1,937	2,628	11,240	( <sup>2</sup> )	421	1,103	6,370
2015	Poultry dressing, plants.....	90	39	3,162	5,758	2,859	4,871	4,641	13,207	75,974	448	922	2,067
202	Dairy products.....	242	109	(D)	(D)	(D)	(D)	(D)	(D)	(D)	( <sup>3</sup> )	( <sup>3</sup> )	(D)
2021	Creamery butter.....	12	3	198	506	140	275	282	1,181	5,921	81	( <sup>3</sup> )	( <sup>3</sup> )
2023	Concentrated milk.....	7	3	131	310	97	156	179	1,485	4,681	57	( <sup>3</sup> )	( <sup>3</sup> )
2024	Ice cream and ices.....	69	21	1,169	3,582	670	1,448	1,555	9,194	20,499	893	( <sup>3</sup> )	( <sup>3</sup> )
2026	Fluid milk.....	30	3	197	529	143	306	344	1,033	3,407	(D)	( <sup>3</sup> )	( <sup>3</sup> )
2027	Fluid milk and other products..	116	77	8,720	32,724	3,517	8,167	10,422	79,992	217,568	4,322	( <sup>3</sup> )	( <sup>3</sup> )
203	Canned and frozen foods.....	106	50	4,562	9,584	4,145	7,915	7,508	17,425	( <sup>2</sup> )	745	6,033	21,703
2033	Canned fruits and vegetables...	57	32	2,729	5,452	2,448	4,610	4,075	9,831	31,155	353	5,006	12,557
2035	Pickles and sauces.....	36	10	844	2,299	764	1,579	1,901	4,156	20,361	174	551	7,570
2036	Packaged seafood.....	8	6	690	1,259	652	1,176	1,045	2,262	14,617	(D)	(D)	(D)
2037	Frozen fruits and vegetables...	5	2	299	573	279	549	486	1,174	2,014	(D)	(D)	(D)
204	Grain mill products.....	182	78	7,304	25,421	4,950	11,342	14,823	57,138	( <sup>2</sup> )	4,447	7,494	63,365
2041	Flour and meal.....	30	14	1,783	6,418	1,192	2,608	4,131	16,738	94,924	726	3,033	29,955
2042	Prepared animal feeds.....	131	51	4,183	14,101	2,736	6,421	7,889	31,589	148,110	2,637	3,225	18,591
2044	Rice milling.....	16	13	1,304	4,765	1,001	2,269	2,759	8,554	63,763	1,073	1,078	14,017
205	Bakery products.....	266	93	11,078	40,296	6,599	14,061	19,429	82,146	( <sup>2</sup> )	3,002	9,658	50,028
2051	Bread and related products.....	257	87	9,681	35,598	5,537	11,937	16,179	65,342	132,412	2,619	8,348	41,447
2052	Biscuit and crackers.....	9	6	1,396	4,697	1,062	2,124	3,250	16,804	30,269	383	1,310	8,581
207	Candy and related products...	77	17	1,469	3,520	1,271	2,941	2,579	8,726	22,086	190	(D)	(D)
2071	Confectionery products.....	77	17	1,469	3,520	1,271	2,941	2,579	8,726	22,086	190	2,315	(D)
208	Beverages.....	294	102	8,078	27,246	3,894	7,778	10,370	63,968	( <sup>2</sup> )	3,925	7,245	44,321
2081	Bottled soft drinks.....	287	96	6,321	18,909	2,746	5,361	5,671	38,826	69,843	2,992	5,627	27,939
209	Miscellaneous foods.....	459	88	8,721	28,879	6,186	12,936	17,832	110,109	( <sup>2</sup> )	6,145	10,165	76,284
2092	Shortening and cooking oils....	7	7	1,007	4,606	720	1,564	2,952	18,145	104,441	1,545	975	21,709
2093	Margarine.....	5	5	404	1,380	317	621	958	5,580	34,948	159	(D)	(D)
2095	Flavorings.....	25	5	467	2,022	234	460	729	14,264	26,845	198	252	(D)
2099	Food preparations, n.e.c.....	185	45	3,957	12,337	3,026	5,982	7,877	55,730	260,640	3,517	4,063	(D)
21	Tobacco manufactures.....	3	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	404	(D)
22	Textile mill products.....	67	36	8,636	22,209	8,006	16,548	18,990	33,754	( <sup>2</sup> )	2,870	8,438	29,838
221	Woolen and worsted manufac- ture.....	4	2	112	293	100	184	223	499	( <sup>2</sup> )	59	(D)	(D)
223	Broad-woven fabrics.....	19	17	5,681	13,783	5,461	11,430	12,704	19,960	( <sup>2</sup> )	2,482	6,337	21,162
225	Knitting mills.....	8	6	938	2,844	824	1,483	2,148	3,912	( <sup>2</sup> )	126	683	3,031
228	Hats, except cloth and mil- linery.....	9	5	999	2,951	831	1,659	2,029	5,099	( <sup>2</sup> )	146	(D)	(D)
2281	Fur-felt hats and hat bodies...	5	4	867	2,667	738	1,492	1,889	4,514	10,016	(D)	378	1,961
2283	Straw hats.....	4	1	131	284	92	167	140	585	1,240	(D)	148	(D)
229	Miscellaneous textile goods..	20	6	866	2,268	762	1,747	1,842	4,078	( <sup>2</sup> )	(D)	744	2,651
2298	Cordage and twine.....	7	1	203	524	193	397	443	674	1,835	...	(D)	(D)
23	Apparel and related prod- ucts.....	511	265	28,543	61,112	25,954	48,631	48,438	98,689	( <sup>2</sup> )	1,891	21,734	70,423
232	Men's and boys' furnishings...	96	75	12,178	24,621	11,258	20,857	20,553	41,405	( <sup>2</sup> )	827	9,655	31,866
2325	Men's and boys' cloth hats.....	8	3	190	382	182	343	355	669	1,192	21	(D)	(D)
2327	Separate trousers.....	19	18	2,198	4,802	2,127	3,920	4,306	8,539	21,417	(D)	1,750	9,437
2329	Men's and boys' clothing, nec..	52	43	9,026	17,728	8,272	15,308	14,703	29,877	74,200	502	6,772	19,106
233	Women's and misses' outerwear	122	79	7,007	16,336	6,310	11,894	12,604	26,315	( <sup>2</sup> )	427	(D)	(D)
2331	Blouses.....	18	10	657	1,214	604	1,127	1,014	1,798	3,220	29	(D)	(D)
2334	Dresses, dozen price.....	16	9	814	1,643	748	1,376	1,353	2,436	5,669	22	1,129	(D)
2337	Women's suits, coats, & skirts.	32	22	1,715	3,958	1,567	2,999	3,115	6,757	12,554	119	1,732	3,923
2339	Women's outerwear, n.e.c.....	15	10	801	1,800	748	1,528	1,502	2,994	6,582	95	122	(D)
234	Women's undergarments.....	31	18	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2341	Women's & children's underwear.	23	12	836	1,718	744	1,411	1,348	2,536	5,892	(D)	526	(D)
236	Children's outerwear.....	60	37	2,816	5,291	2,623	4,786	4,386	9,519	( <sup>2</sup> )	114	1,653	3,845
2369	Children's outerwear, n.e.c....	20	11	1,048	2,211	957	1,855	1,681	4,627	8,727	34	(D)	(D)
238	Miscellaneous apparel.....	31	16	1,422	3,325	1,224	2,406	2,293	4,589	( <sup>2</sup> )	106	597	1,713
2387	Belts.....	19	9	904	2,403	741	1,533	1,516	2,835	5,932	75	346	(D)
239	Fabricated textiles, n.e.c....	138	26	2,674	6,130	2,303	4,308	4,338	8,915	( <sup>2</sup> )	263	2,790	12,940
2391	Curtains and draperies.....	14	5	348	808	318	614	576	1,299	5,121	53	166	728
2392	Housefurnishings, n.e.c.....	26	4	254	536	209	374	350	764	2,120	(D)	130	423
2393	Textile bags.....	10	7	1,130	2,592	961	1,813	1,815	3,062	18,362	(D)	1,582	8,619
2394	Canvas products.....	44	2	334	843	277	549	582	1,625	3,833	61	327	1,254
2396	Trimings and art goods.....	7	2	108	267	93	183	215	388	1,046	38	(D)	(D)
2398	Embroideries, except schiffli..	6	1	102	237	93	175	181	363	440	5	40	(D)
2399	Textile products, n.e.c.....	27	5	365	775	322	552	558	1,308	2,986	9	390	1,521

See footnotes at end of table.

## MANUFACTURES—AREA STATISTICS

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establish- ments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
24	Lumber and wood products...	1,042	189	20,739	48,098	18,958	38,781	40,477	76,368	( <sup>2</sup> )	5,788	( <sup>3</sup> )	( <sup>3</sup> )
2411	Logging camps and contractors	259	8	1,618	2,888	1,450	2,428	2,486	5,737	11,364	384	( <sup>3</sup> )	( <sup>3</sup> )
242	Lumber and basic products....	432	96	11,260	24,315	10,577	21,778	21,534	38,168	( <sup>2</sup> )	3,629	21,983	64,378
2421	Sawmills and planing mills.....	426	92	10,943	23,757	10,276	21,300	21,038	37,395	77,616	3,605	21,489	63,772
2422	Veneer mills.....	3	3	272	477	262	427	439	631	1,117	22	204	(D)
243	Millwork and related products	217	41	3,775	11,505	3,169	6,922	8,899	17,265	( <sup>2</sup> )	1,180	3,218	12,219
2431	Millwork plants.....	209	36	3,240	9,996	2,699	5,905	7,736	15,551	38,829	1,150	2,393	8,999
244	Wooden containers.....	46	24	2,325	4,855	2,214	4,531	4,034	7,400	( <sup>2</sup> )	355	2,859	7,559
2444	Wooden boxes.....	32	17	1,585	3,481	1,495	3,053	2,946	5,528	12,633	279	1,395	4,342
249	Miscellaneous wood products..	88	20	1,759	4,535	1,547	3,120	3,523	7,796	( <sup>2</sup> )	238	2,634	11,832
2491	Wood preserving.....	25	12	1,114	3,014	957	1,960	2,343	5,153	14,325	128	2,234	10,565
25	Furniture and fixtures.....	476	94	9,819	29,589	8,243	16,699	21,682	51,606	( <sup>2</sup> )	2,087	5,819	22,984
251	Household furniture.....	245	58	6,361	18,578	5,341	10,568	13,771	33,149	( <sup>2</sup> )	1,313	3,580	14,763
2511	Wood furniture, not upholstered	69	16	1,666	4,366	1,417	2,897	3,099	6,731	14,468	190	1,244	(D)
2512	Upholstered household furniture	50	28	2,551	7,676	2,187	4,163	5,928	12,857	25,292	716	1,468	6,743
2515	Mattresses and bedsprings.....	109	9	1,770	5,294	1,417	2,882	3,834	11,530	23,556	315	750	3,771
252	Office furniture.....	9	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2521	Wood office furniture.....	6	3	137	416	124	266	370	666	1,272	33	85	(D)
253	Public and professional fur- niture.....	19	7	1,170	3,588	1,060	2,411	2,835	6,593	( <sup>2</sup> )	177	(D)	(D)
2541	Partitions and fixtures.....	67	13	901	3,583	740	1,534	2,610	5,430	9,570	128	770	2,967
256	Screens, shades and blinds...	126	9	1,039	2,756	805	1,539	1,607	4,441	( <sup>2</sup> )	318	1,027	3,528
2561	Window and door screen.....	17	4	220	668	177	324	370	955	2,403	(D)	59	(D)
2563	Venetian blinds.....	104	4	778	1,980	600	1,157	1,175	3,270	7,877	272	954	3,338
26	Pulp, paper and products...	86	57	8,126	33,764	6,386	13,838	24,147	68,224	( <sup>2</sup> )	7,298	4,674	32,992
261	Pulp, paper and board.....	17	15	3,447	16,835	2,829	6,345	12,892	37,884	( <sup>2</sup> )	5,196	(D)	(D)
2612	Paper and paperboard mills.....	5	5	2,156	10,612	1,766	3,968	8,024	21,254	55,886	2,369	(NA)	(NA)
2651	Envelopes.....	9	8	442	1,604	335	716	1,026	2,994	5,609	101	150	759
267	Paperboard containers.....	28	20	2,777	10,370	2,063	4,362	6,645	16,782	( <sup>2</sup> )	961	1,909	9,108
269	Pulp, paper and products, n.e.c.....	18	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2699	Paper and board products, nec..	16	5	479	1,504	404	813	1,129	2,860	7,868	243	161	580
27	Printing and publishing....	1,364	178	22,537	86,582	13,987	29,333	51,771	154,672	( <sup>2</sup> )	8,440	17,756	92,467
2711	Newspapers.....	516	76	12,435	49,383	6,732	14,830	27,143	91,057	132,246	5,228	9,998	56,831
2721	Periodicals.....	79	6	566	2,301	130	162	281	5,163	8,685	124	452	2,884
273	Books.....	34	5	934	2,687	686	1,553	1,417	4,409	( <sup>2</sup> )	186	307	994
2731	Books; publishing and printing.	18	4	806	2,319	584	1,307	1,152	3,687	5,795	157	237	(D)
2732	Book printing.....	16	1	128	368	101	246	264	721	1,033	29	70	(D)
2751	Commercial printing.....	478	51	4,241	15,631	3,269	6,435	11,429	25,011	41,106	1,489	4,520	20,775
2761	Lithographing.....	106	23	2,236	9,018	1,567	3,196	5,944	16,274	25,474	946	967	3,990
278	Bookbinding and related in- dustries.....	29	6	780	1,961	707	1,405	1,654	3,839	( <sup>2</sup> )	225	454	1,620
279	Printing trade services.....	96	9	1,039	4,841	797	1,549	3,653	7,471	( <sup>2</sup> )	221	766	4,489
2791	Typesetting.....	30	3	402	1,846	339	636	1,547	2,831	3,104	123	217	1,286
2792	Engraving and plate printing...	21	1	170	565	139	273	364	905	1,279	(D)	169	(D)
2793	Photoengraving.....	41	4	409	2,139	274	561	1,520	3,333	4,150	54	338	2,257
28	Chemicals and products.....	522	229	36,976	179,926	25,753	54,128	114,045	722,056	( <sup>2</sup> )	141,176	23,552	234,496
281	Inorganic chemicals.....	26	23	4,804	22,466	3,598	7,363	15,736	72,204	( <sup>2</sup> )	8,953	2,072	13,974
2819	Inorganic chemicals, n.e.c.....	20	17	3,095	13,884	2,383	4,910	9,914	37,327	78,791	6,312	(NA)	(NA)
282	Organic chemicals.....	37	31	19,355	106,373	12,773	25,707	65,661	481,626	( <sup>2</sup> )	118,275	10,512	110,218
2824	Synthetic rubber.....	7	7	2,781	15,173	2,139	4,331	11,134	61,609	154,044	2,670	2,538	(D)
2829	Organic chemicals, n.e.c.....	17	14	13,327	74,379	8,577	17,309	44,620	368,711	596,731	53,344	(NA)	(NA)
283	Drugs and medicines.....	41	7	483	1,664	308	485	758	3,199	( <sup>2</sup> )	(D)	374	2,166
2834	Pharmaceutical preparations....	33	5	384	1,257	238	357	532	2,876	5,103	148	232	(D)
284	Soap and related products....	50	6	780	3,445	527	1,047	2,063	21,595	( <sup>2</sup> )	289	780	15,092
285	Paints and allied products...	56	20	1,512	6,609	861	1,815	2,993	18,292	( <sup>2</sup> )	489	977	10,662
2851	Paints and varnishes.....	51	19	1,463	6,419	824	1,741	2,881	17,504	40,838	471	947	(D)
287	Fertilizers.....	27	13	1,321	5,474	1,007	2,090	3,847	17,032	( <sup>2</sup> )	2,253	756	9,114
2871	Fertilizers.....	12	8	1,104	4,834	852	1,773	3,483	15,612	39,387	1,867	584	(D)
2872	Fertilizers, mixing only.....	15	5	216	640	155	316	364	1,420	5,899	385	172	(D)
288	Vegetables and animal oils...	111	74	3,955	12,575	3,208	8,497	8,982	28,538	( <sup>2</sup> )	3,000	4,681	31,681
2881	Cottonseed oil mills.....	84	65	3,385	10,856	2,713	7,325	7,709	25,252	164,000	2,720	3,717	26,152
289	Chemical products, n.e.c.....	172	55	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2893	Toilet preparations.....	17	3	185	598	120	231	305	1,202	1,997	50	115	579
2895	Carbon black.....	25	20	1,923	9,689	1,555	3,357	7,482	38,396	63,038	3,442	1,954	29,957
2896	Compressed and liquefied gases.	36	9	719	2,878	407	810	1,320	6,572	8,655	685	533	3,995
2897	Insecticides and fungicides....	29	11	854	3,701	560	1,060	1,965	9,824	24,734	726	76	(D)
2899	Chemical products, n.e.c.....	45	8	603	2,740	439	845	1,686	18,094	35,628	571	371	3,576

See footnotes at end of table.



Table 4.--GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947--Continued

(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
29	Petroleum and coal products	111	74	41,284	219,460	31,722	62,007	159,937	470,454	( <sup>2</sup> )	159,674	37,696	359,680
2911	Petroleum refining.....	77	62	39,627	212,794	30,717	59,935	156,098	452,750	3,229,753	157,140	36,317	349,424
295	Paving and roofing materials.	15	6	576	2,155	465	1,012	1,669	6,116	( <sup>2</sup> )	272	918	7,462
299	Petroleum and coal products, n.e.c.....	17	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2992	Lubricants, n.e.c.....	14	2	514	1,985	66	138	197	3,574	5,933	54	62	(D)
30	Rubber products.....	27	12	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1,149	(D)
3099	Rubber industries, n.e.c.....	26	11	961	3,412	822	1,674	2,665	6,148	12,171	2,049	286	(D)
31	Leather and leather goods..	107	35	3,410	6,766	3,106	5,296	5,646	10,180	( <sup>2</sup> )	337	1,690	5,962
3111	Leather tanning and finishing	4	2	144	388	130	244	323	538	1,219	18	168	(D)
314	Footwear, except rubber.....	51	24	2,607	4,907	2,405	3,961	4,253	6,988	( <sup>2</sup> )	295	(D)	(D)
317	Purses and small leather goods.....	14	2	157	321	134	226	201	537	( <sup>2</sup> )	8	106	328
319	Miscellaneous leather goods..	28	4	215	493	184	385	397	868	( <sup>2</sup> )	6	(D)	(D)
32	Stone, clay and glass products.....	411	132	13,729	47,474	11,493	24,845	35,509	133,789	( <sup>2</sup> )	10,826	10,629	57,646
3231	Products of purchased glass..	13	2	144	511	100	204	297	719	1,313	24	202	847
3241	Cement, hydraulic.....	13	13	2,602	10,590	2,106	4,366	7,535	44,966	61,280	5,052	2,167	19,326
325	Structural clay products.....	54	43	3,726	10,916	3,301	7,353	8,501	16,980	( <sup>2</sup> )	1,407	2,683	8,145
3253	Floor and wall tile.....	8	6	674	2,081	596	1,219	1,500	3,601	6,149	176	(D)	(D)
326	Pottery and related products.	23	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3269	Pottery products, n.e.c.....	21	3	234	538	203	423	442	841	1,159	130	285	(D)
327	Concrete and plaster products	209	45	4,120	13,762	3,346	7,345	10,150	41,958	( <sup>2</sup> )	2,391	2,974	16,224
3271	Concrete products.....	196	35	2,567	7,665	2,018	4,200	5,118	15,142	27,848	1,125	1,882	6,364
3272	Gypsum products.....	7	5	1,160	4,883	996	2,411	4,097	24,229	39,679	950	859	8,843
3281	Cut-stone and stone products.	40	5	367	1,102	299	584	858	2,138	3,159	103	241	1,016
329	Nonmetallic mineral products, n.e.c.....	51	17	1,231	4,744	1,006	2,197	3,369	12,595	( <sup>2</sup> )	1,467	(D)	(D)
3292	Asbestos products.....	5	4	470	1,935	391	846	1,449	3,701	8,298	964	369	1,776
3295	Minerals: ground or treated...	24	9	440	1,565	359	823	1,069	6,124	10,908	312	228	967
33	Primary metal industries...	155	87	22,373	99,121	19,381	39,844	81,084	206,151	( <sup>2</sup> )	27,244	11,682	58,337
332	Iron and steel foundries.....	47	33	4,442	15,851	3,967	8,176	12,856	28,108	( <sup>2</sup> )	1,298	3,060	10,921
3321	Gray-iron foundries.....	40	26	3,113	10,583	2,831	5,819	9,105	19,760	32,344	1,008	1,876	6,833
333	Primary nonferrous metals....	12	12	9,037	40,893	7,805	16,009	34,235	93,900	( <sup>2</sup> )	16,867	4,224	27,878
3361	Nonferrous foundries.....	50	11	658	2,204	582	1,114	1,742	3,313	7,433	186	445	1,923
339	Primary metal industries, n.e.c.....	19	13	1,970	8,903	1,557	3,226	6,572	19,044	( <sup>2</sup> )	638	576	3,232
3391	Iron and steel forgings.....	5	4	244	1,069	209	425	879	2,172	4,230	90	175	845
34	Fabricated metal products..	586	185	18,805	75,470	14,772	31,089	52,570	131,543	( <sup>2</sup> )	8,653	13,167	66,871
3411	Tin cans and other tinware...	5	4	1,935	8,892	1,634	3,323	7,042	16,664	47,879	2,002	1,672	(D)
342	Cutlery, tools and hardware..	24	4	295	1,021	244	503	727	2,198	( <sup>2</sup> )	164	176	721
3429	Hardware, n.e.c.....	13	2	193	747	158	337	532	1,482	2,722	127	54	(D)
343	Heating and plumbing equipment.....	22	5	592	2,276	417	892	1,341	5,122	( <sup>2</sup> )	66	1,732	8,063
344	Structural metal products....	382	127	12,629	50,790	9,766	20,888	34,357	83,659	( <sup>2</sup> )	4,524	7,655	38,757
3441	Structural and ornamental work.	164	62	6,498	25,688	4,939	10,596	16,810	37,826	90,499	2,753	4,286	19,053
3442	Metal doors, sash, and trim....	23	10	777	3,029	604	1,261	1,830	5,496	10,856	203	(D)	(D)
3443	Boiler shop products.....	65	38	3,799	16,221	3,040	6,572	11,690	30,446	60,790	995	2,394	15,857
3444	Sheet-metal work.....	130	17	1,553	5,851	1,181	2,457	4,026	9,890	17,902	571	733	(D)
346	Metal stamping and coating...	69	15	929	3,164	789	1,645	2,425	5,539	( <sup>2</sup> )	338	565	2,119
3468	Plating and polishing.....	41	5	391	1,249	343	726	1,016	2,250	2,878	168	133	528
3471	Lighting fixtures.....	18	5	200	676	140	271	362	1,733	3,961	13	30	(D)
348	Fabricated wire products.....	29	14	909	3,095	725	1,507	2,240	7,247	( <sup>2</sup> )	788	414	2,660
349	Metal products, n.e.c.....	37	11	1,313	5,554	1,054	2,058	4,073	9,377	( <sup>2</sup> )	754	923	5,556
3491	Metal barrels, drums, and pails	5	4	836	3,846	672	1,333	2,879	6,730	21,714	259	682	4,707
3499	Fabricated metal products, nec.	20	2	258	842	205	349	580	1,042	3,445	203	64	(D)
35	Machinery, except electrical.....	783	219	32,328	145,424	24,517	51,834	97,399	316,205	( <sup>2</sup> )	18,621	23,300	129,587
352	Tractors and farm machinery..	50	8	770	2,782	608	1,288	1,872	5,716	( <sup>2</sup> )	173	1,792	7,747
353	Construction and mining machinery.....	169	80	16,681	82,644	12,035	25,482	53,197	190,769	( <sup>2</sup> )	13,332	13,858	80,406
3531	Construction & mining machinery	24	11	721	3,038	536	1,117	1,834	5,537	10,281	129	412	1,987
3532	Oil-field machinery and tools..	145	69	15,960	79,606	11,499	24,365	51,362	185,232	274,034	13,202	13,446	78,419

See footnotes at end of table.



Table 4.--GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947--Continued

(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establish- ments, number		All employees		Production workers			Value added by manufacture	Value of shipments	Capital expendi- tures, new	All employees, number	Value added by manufacture
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
	Machinery, except electri- cal--Continued												
354	Metalworking machinery.....	45	12	854	4,068	686	1,588	2,953	7,333	( <sup>2</sup> )	471	219	926
3542	Metalworking machinery.....	4	2	315	1,529	233	551	1,097	3,117	4,385	117	43	(D)
3544	Special dies and tools.....	31	6	344	1,672	294	692	1,275	2,442	3,437	214		
3545	Metalworking mach. attachments.	8	3	111	506	91	188	327	987	1,627	118	117	500
355	Special-industry machinery, n.e.c.....	59	10	2,781	11,059	2,168	4,820	7,777	19,841	( <sup>2</sup> )	615	2,051	9,409
3551	Food-products machinery.....	18	2	217	762	185	369	591	1,170	1,850	64	334	(D)
3559	Special-industry machinery, nec	29	8	2,499	10,025	1,941	4,367	7,029	18,283	33,414	538	1,637	7,566
356	General industrial machinery.	91	38	2,970	12,366	2,242	4,501	8,070	23,372	( <sup>2</sup> )	775	1,738	10,447
3561	Pumps and compressors.....	30	11	1,002	4,445	814	1,678	3,212	9,623	19,384	256	717	5,277
3563	Conveyors.....	11	8	390	1,632	248	503	824	2,830	4,845	74	188	(D)
3564	Blowers and fans.....	15	5	273	880	213	418	668	1,786	3,451	129	229	1,080
3566	Power-transmission equipment.	9	3	423	1,763	320	660	1,048	2,978	4,562	168	253	(D)
3569	General industrial mach., nec	19	10	804	3,393	595	1,141	2,167	5,542	12,626	134	324	2,071
358	Service and household ma- chines.....	47	21	2,924	10,000	2,388	4,989	7,012	25,425	( <sup>2</sup> )	807	1,631	8,594
3585	Refrigeration machinery.....	37	17	2,586	8,902	2,116	4,422	6,247	23,595	( <sup>2</sup> )	753	1,190	6,780
359	Miscellaneous machinery parts	318	50	5,325	22,447	4,370	9,131	16,477	43,650	( <sup>2</sup> )	2,443	1,979	11,916
3591	Valves & fittings, exc. plbg...	25	16	1,549	6,399	1,123	2,302	4,020	14,345	26,866	569	676	3,987
3592	Fabricated pipe and fittings...	16	10	1,187	6,312	1,046	2,181	4,865	11,434	27,179	557	543	(D)
3594	Industrial patterns and molds..	27	...	113	440	105	202	395	796	1,088	32	(D)	(D)
3599	Machine shops.....	250	24	2,475	9,295	2,095	4,444	7,195	17,074	27,817	1,285	686	3,811
36	Electrical machinery.....	85	28	4,915	19,672	3,621	7,758	12,350	34,932	( <sup>2</sup> )	1,407	1,946	12,163
361	Electrical industrial appa- ratus.....	21	10	812	3,560	621	1,334	2,154	5,938	( <sup>2</sup> )	379	(D)	(D)
366	Communication equipment.....	23	7	2,980	12,046	2,078	4,568	7,294	20,570	( <sup>2</sup> )	548	156	645
3661	Radios and related products....	18	7	2,945	11,961	2,054	4,529	7,238	20,453	( <sup>2</sup> )	511	125	(D)
369	Electrical products, n.e.c....	32	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3691	Storage batteries.....	27	8	693	2,665	554	1,126	1,837	5,617	16,780	276	686	5,906
37	Transportation equipment...	180	71	55,426	264,195	41,906	82,380	181,916	361,359	( <sup>2</sup> )	17,094	20,735	91,893
371	Motor vehicles and equipment.	79	27	6,610	28,890	5,580	11,635	22,871	65,877	( <sup>2</sup> )	3,052	(D)	(D)
3713	Truck and bus bodies.....	27	8	642	2,416	573	1,234	1,979	4,433	9,934	142	342	(D)
3715	Truck trailers.....	9	5	659	2,632	530	1,133	1,907	4,214	10,437	(D)	500	3,418
372	Aircraft and parts.....	25	17	44,045	216,234	32,218	62,765	144,036	270,215	( <sup>2</sup> )	12,932	(D)	(D)
3721	Aircraft.....	7	7	41,148	204,147	30,279	59,003	136,907	255,303	380,498	6,585	12,944	(D)
373	Ships and boats.....	72	27	4,741	19,027	4,084	7,932	14,969	25,217	( <sup>2</sup> )	1,107	5,103	22,448
38	Instruments and related products.....	83	17	2,106	7,614	1,701	3,362	5,148	18,128	( <sup>2</sup> )	881	921	3,681
3811	Scientific instruments.....	22	9	720	3,457	520	1,099	2,085	6,023	8,926	319	176	(D)
3821	Mech. measuring instruments..	21	3	224	792	177	334	518	2,624	4,599	(D)	159	510
384	Medical equipment and sup- plies.....	26	2	303	1,042	221	444	657	2,327	( <sup>2</sup> )	178	134	502
39	Miscellaneous manufacture <sup>4</sup> .	370	59	10,446	38,638	8,355	16,794	27,312	51,218	( <sup>2</sup> )	6,702	3,284	14,458
391	Jewelry and silverware.....	19	1	310	847	198	394	486	652	( <sup>2</sup> )	19	279	1,275
394	Toys and sporting goods.....	48	5	594	1,268	548	1,019	1,104	2,550	( <sup>2</sup> )	154	374	974
3949	Sporting and athletic goods....	33	4	423	938	389	709	808	1,867	3,526	119	324	826
395	Office supplies.....	24	4	300	954	195	397	509	1,512	( <sup>2</sup> )	85	163	979
396	Costume jewelry and notions..	15	4	250	522	209	395	315	804	( <sup>2</sup> )	25	(D)	(D)
398 399	Miscellaneous manufactures <sup>4</sup> ..	227	36	8,230	32,460	6,597	13,371	23,144	40,533	( <sup>2</sup> )	6,151	2,124	9,524
3981	Brooms and brushes.....	39	4	316	715	274	492	592	1,027	2,523	57	339	1,774
3988	Morticians' goods.....	22	9	488	1,343	386	786	801	2,160	4,055	70	722	3,166
3993	Signs and advertising displays.	120	7	1,206	4,402	929	1,788	3,035	6,571	10,136	283	928	4,136
1900	Ordnance and accessories.....	15	12	5,915	25,164	4,743	9,809	18,122	29,456	( <sup>2</sup> )	5,675	(D)	(D)

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industries (4-digit) and industry groups (3-digit) are not shown. Industries and industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "all industries" line.

<sup>2</sup>The total value of shipments figures for industry groups and a few individual industries have not been published due to the extensive and unmeasurable duplication arising from shipments from one establishment to another in the same industry classification. (See Introduction.)

Footnotes continued on next page.

## Footnotes for Table 4--Continued.

<sup>3</sup>Comparable data are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude establishments in S.I.C. Industry 2411, Logging Camps and Contractors, which are included in the scope of the 1954 Census; the 1947 Census also excludes plants processing and distributing fluid milk which in 1954 were classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	All industries except subgroups 202 and 2411, total.....	397,884	3,401,909	294,865	1,716,494
20	Food and kindred products except subgroup 202, Dairy products.....	57,000	439,000	55,595	326,576
24	Lumber and wood products except Industry 2411, Logging camps and contractors.....	19,121	70,631	30,694	95,988

<sup>4</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)

## MANUFACTURES—AREA STATISTICS

Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947  
(For explanation of column captions see Introduction)

Code	Industry group	Establish- ments, number	1954						1947		
			All employees		Production workers			Value added by manufacture	Capital expendi- tures, new	All employees, number	Value added by manufacture
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
DALLAS STANDARD METROPOLITAN AREA (Consists of Dallas County, Texas)											
	All industries, total <sup>1</sup> ...	1,369	72,770	290,812	52,757	107,581	181,510	508,271	20,021	<sup>2</sup> 38,828	<sup>2</sup> 238,839
20	Food and kindred products...	178	10,303	38,076	6,294	13,308	19,478	91,014	4,847	( <sup>3</sup> )	( <sup>3</sup> )
201	Meat products.....	23	1,929	7,277	1,411	3,111	4,933	15,706	424	1,737	11,462
202	Dairy products.....	18	1,668	7,331	700	1,527	2,225	14,109	541	( <sup>3</sup> )	( <sup>3</sup> )
203	Canned and frozen foods.....	13	503	1,502	457	975	1,267	2,759	109	194	845
204	Grain mill products.....	8	321	1,329	208	474	755	2,518	197	601	4,534
205	Bakery products.....	32	2,447	9,051	1,305	2,803	4,121	16,226	847	1,983	12,078
207	Candy and related products.....	12	457	1,277	416	771	1,076	3,029	53	397	1,500
208	Beverages.....	10	781	2,489	276	593	702	4,909	331	746	4,099
209	Miscellaneous foods.....	62	2,195	7,819	1,518	3,050	4,396	31,754	2,343	1,611	24,999
21	Tobacco manufactures.....	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
22	Textile mill products.....	13	1,162	3,690	968	2,003	2,519	6,584	160	1,349	5,679
229	Miscellaneous textile goods....	6	379	1,053	339	805	893	2,331	17	(D)	(D)
23	Apparel & related products..	179	8,249	20,592	7,333	13,919	15,540	36,499	497	7,254	29,920
232	Men's and boys' furnishings....	19	1,140	2,780	1,020	1,844	2,137	6,379	53	(NA)	(NA)
233	Women's and misses' outerwear..	74	5,029	12,641	4,476	8,564	9,516	20,730	250	(NA)	(NA)
234	Women's undergarments.....	5	100	201	92	175	172	307	13	(NA)	(NA)
236	Children's outerwear.....	15	308	665	283	512	560	1,994	34	(NA)	(NA)
238	Miscellaneous apparel.....	7	286	712	252	488	511	1,105	18	(NA)	(NA)
239	Fabricated textiles, n.e.c.....	38	926	2,375	793	1,516	1,674	3,753	113	(NA)	(NA)
24	Lumber and wood products....	48	608	1,841	499	1,023	1,298	2,647	151	833	3,465
243	Millwork & related products....	34	403	1,347	315	647	930	1,864	65	572	2,592
25	Furniture and fixtures.....	76	2,295	8,369	1,918	3,798	6,330	15,573	628	1,747	7,664
251	Household furniture.....	32	1,572	5,650	1,336	2,549	4,416	11,367	478	1,065	5,060
254	Partitions and fixtures.....	17	364	1,579	304	661	1,166	2,213	46	(D)	(D)
256	Screens, shades, and blinds....	20	205	628	157	327	387	1,064	55	387	1,436
26	Pulp, paper and products....	29	2,465	9,648	1,836	3,752	5,818	14,878	876	1,507	7,960
265	Envelopes.....	4	282	1,015	223	473	704	1,837	60	(D)	(D)
267	Paperboard containers.....	9	1,248	5,019	834	1,590	2,581	6,813	441	(D)	(D)
269	Pulp, paper and products, nec..	8	358	1,075	303	613	785	2,041	157	(D)	(D)
27	Printing and publishing.....	230	4,640	18,413	3,050	6,041	10,702	33,915	1,499	3,467	19,423
271	Newspapers.....	23	1,180	4,983	620	1,021	2,437	12,117	360	(D)	(D)
272	Periodicals.....	20	202	873	48	36	72	1,910	37	257	1,774
273	Books.....	8	687	1,946	532	1,185	1,018	2,803	104	(D)	(D)
275	Commercial printing.....	100	1,162	4,932	878	1,808	3,323	7,846	511	1,010	4,956
276	Lithographing.....	38	522	2,200	351	734	1,317	3,674	294	208	960
278	Bookbinding & related inds.....	9	173	449	152	294	337	736	65	(D)	(D)
279	Printing trade services.....	27	524	2,606	407	823	2,043	3,912	119	336	2,043
28	Chemicals and products.....	86	1,990	8,361	1,317	2,611	4,490	34,472	847	1,608	22,766
283	Drugs and medicines.....	13	101	309	58	91	131	925	54	110	804
285	Paints and allied products.....	22	692	2,985	410	848	1,295	7,887	351	332	3,853
289	Chemical products, n.e.c.....	26	295	1,083	193	400	597	3,035	162	302	1,890
29	Petroleum and coal products..	8	292	1,118	236	501	862	3,759	1,121	539	2,661
30	Rubber products.....	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
309	Rubber industries, n.e.c.....	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
31	Leather and leather goods....	11	142	280	131	243	245	521	9	72	244
32	Stone, clay, & glass prod...	50	1,546	5,852	1,265	2,567	4,087	15,751	1,554	1,053	5,777
325	Structural clay products.....	4	294	894	258	525	627	1,754	81	(D)	(D)
329	Nonmet. mineral prod., n.e.c...	10	159	614	126	273	437	1,309	116	(D)	(D)
33	Primary metal industries....	20	436	1,529	381	761	1,187	3,674	80	388	(D)
332	Iron and steel foundries.....	4	118	339	111	211	268	486	...	148	457
334	Secondary nonferrous metals....	5	159	611	145	302	528	2,234	13	(D)	(D)
34	Fabricated metal products...	134	3,649	14,503	2,844	6,090	9,653	26,158	1,068	3,582	18,323
343	Heating and plumbing equipment.	10	490	2,001	327	706	1,093	4,613	26	1,354	6,417
344	Structural metal products.....	69	2,309	9,686	1,786	3,944	6,419	16,755	707	1,960	10,875
346	Metal stamping and coating.....	27	392	1,309	344	689	1,057	2,304	141	101	410
349	Metal products, n.e.c.....	7	191	620	157	265	432	678	95	(D)	(D)
35	Machinery, exc. electrical...	162	5,881	24,380	4,516	9,710	16,266	49,379	2,644	3,127	15,987
353	Construction & mining mach....	25	1,895	8,612	1,338	2,940	5,220	18,757	1,452	690	3,606
354	Metalworking machinery.....	20	453	2,142	371	911	1,531	3,700	236	104	444
355	Special-industry mach., n.e.c...	23	1,923	7,928	1,540	3,323	5,633	14,755	475	1,339	6,906
356	General industrial machinery...	14	281	892	206	361	532	2,467	132	287	1,393
358	Service and household machines.	11	307	969	246	470	627	1,864	57	361	1,644
359	Miscellaneous mach. parts.....	61	890	3,292	709	1,489	2,333	6,638	283	177	722

See footnotes at end of table.



Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Code	Industry group	Establishments, number	1954							1947	
			All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
36	Electrical machinery.....	25	3,515	14,341	2,496	5,423	8,838	25,590	659	832	6,741
361	Elec. industrial apparatus.....	5	137	531	101	202	335	996	16	163	747
366	Communication equipment.....	11	2,910	11,851	2,023	4,469	7,148	20,226	506	(NA)	(NA)
369	Electrical products, n.e.c.....	9	467	1,958	372	752	1,355	4,368	136	520	5,080
37	Transportation equipment....	24	23,418	112,084	15,958	32,350	68,890	133,710	2,833	3,270	(D)
372	Aircraft and parts.....	8	20,351	97,758	13,332	26,977	57,312	101,856	2,163	(D)	(D)
38	Instruments & related prod..	23	380	1,532	253	529	922	3,212	188	196	663
381	Scientific instruments.....	6	105	450	57	116	253	478	58	(D)	(D)
39	Miscellaneous manufactures <sup>4</sup> .	62	1,508	5,268	1,204	2,441	3,617	8,528	266	884	4,639
397	Plastics products, n.e.c.....	9	219	738	165	374	488	1,915	61	(D)	(D)
398	Miscellaneous manufactures <sup>4</sup> ....	37	1,157	4,139	952	1,895	2,955	5,935	179	724	3,745
FORT WORTH STANDARD METROPOLITAN AREA (Consists of Tarrant County, Texas)											
	All industries, total <sup>1</sup> ...	601	48,367	211,122	37,308	73,993	148,799	368,152	16,527	<sup>2</sup> 32,039	<sup>2</sup> 146,501
20	Food and kindred products...	102	9,718	37,463	6,492	13,391	22,859	79,348	2,753	( <sup>3</sup> )	( <sup>3</sup> )
201	Meat products.....	10	4,969	20,637	3,744	7,449	14,813	34,496	1,476	5,134	21,207
202	Dairy products.....	13	1,143	3,963	456	1,059	1,302	11,145	484	( <sup>3</sup> )	( <sup>3</sup> )
203	Canned and frozen foods.....	5	132	382	109	149	227	535	8	(D)	(D)
204	Grain mill products.....	14	1,305	5,059	821	1,872	2,913	15,986	303	1,057	10,416
205	Bakery products.....	18	810	2,909	536	1,131	1,534	5,223	100	881	4,132
207	Candy and related products....	10	386	1,206	293	619	624	3,071	60	677	2,648
208	Beverages.....	8	394	1,266	162	335	369	2,691	182	272	1,810
209	Miscellaneous foods.....	24	577	2,040	368	774	1,073	6,199	137	788	5,208
21	Tobacco manufactures.....	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
22	Textile mill products.....	3	47	(D)	34	(D)	(D)	(D)	(D)	(D)	(D)
23	Apparel & related products..	23	1,486	3,208	1,331	2,762	2,595	6,964	79	2,017	5,123
232	Men's and boys' furnishings....	5	1,166	2,501	1,068	2,261	2,124	5,693	56	1,647	3,444
233	Women's & misses' outerwear....	5	131	277	116	225	212	545	7	(D)	(D)
24	Lumber and wood products....	32	440	1,414	343	728	986	1,983	74	189	900
243	Millwork & related products....	19	324	1,127	235	528	772	1,322	25	(D)	(D)
25	Furniture and fixtures.....	41	1,000	2,944	831	1,566	2,028	5,232	201	954	3,483
251	Household furniture.....	18	750	2,276	624	1,151	1,507	4,122	157	668	2,697
26	Pulp, paper, and products....	12	982	3,531	778	1,686	2,680	7,488	395	657	3,974
267	Paperboard containers.....	5	834	3,029	660	1,459	2,361	6,035	301	(D)	(D)
27	Printing and publishing.....	101	2,051	8,450	1,283	2,448	5,318	15,208	843	1,580	8,445
271	Newspapers.....	14	1,063	4,899	554	1,112	2,713	9,538	546	839	5,052
275	Commercial printing.....	42	510	1,922	414	787	1,547	2,774	113	336	1,580
276	Lithographing.....	13	218	790	138	263	544	1,247	113	236	774
279	Printing trade service.....	16	105	396	88	138	328	803	23	(D)	(D)
28	Chemicals and products.....	29	867	3,330	615	1,289	1,998	11,623	627	838	5,814
283	Drugs and medicines.....	5	185	650	115	186	256	1,262	63	(D)	(D)
288	Vegetable and animal oils.....	4	239	846	168	404	499	1,568	117	393	1,776
289	Chemical products, n.e.c.....	11	241	1,052	168	362	699	6,027	280	...	...
29	Petroleum and coal products.	9	1,078	4,574	566	1,079	2,351	7,546	2,496	1,089	9,515
291	Petroleum refining.....	4	462	2,211	398	714	1,758	3,408	2,401	(D)	(D)
30	Rubber products.....	3	64	(D)	55	(D)	(D)	(D)	(D)	(D)	(D)
31	Leather and leather goods...	11	241	690	194	393	494	1,048	22	218	(D)
32	Stone, clay, & glass prod...	16	565	1,947	472	1,047	1,402	5,941	196	385	2,579
327	Concrete & plaster products....	10	130	396	108	265	287	821	57	(D)	(D)
33	Primary metal industries....	20	1,024	3,875	877	1,863	3,048	6,654	278	768	3,278
336	Nonferrous foundries.....	12	240	717	219	408	620	1,067	34	(D)	(D)
34	Fabricated metal products...	54	1,260	5,077	978	2,034	3,035	7,736	775	422	1,709
344	Structural metal products.....	36	1,117	4,602	854	1,767	2,668	6,959	755	357	1,476
35	Machinery, exc. electrical..	64	2,181	8,838	1,734	3,788	5,938	18,385	668	1,263	7,129
353	Construction & mining mach....	12	255	1,061	178	360	611	1,690	111	136	883
356	General industrial machinery...	13	668	2,749	497	1,076	1,639	4,989	151	430	2,248
358	Service and household machines.	7	816	3,124	694	1,528	2,254	8,422	147	(NA)	(NA)
359	Miscellaneous mach. parts.....	23	356	1,511	292	659	1,106	2,727	203	540	3,233
36	Electrical machinery.....	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	39	(D)
37	Transportation equipment....	25	23,912	120,105	19,450	37,215	89,771	184,177	6,666	11,957	(D)
372	Aircraft and parts.....	8	21,614	110,101	17,542	33,245	81,993	157,466	4,473	(D)	(D)

See footnotes at end of table.

## MANUFACTURES—AREA STATISTICS

Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Code	Industry group	Establish- ments, number	1954							1947	
			All employees		Production workers			Value added by manufacture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
38	Instruments & related prod..	8	154	624	136	285	540	1,543	38	83	295
39	Miscellaneous manufactures <sup>4</sup> .	37	1,200	4,289	1,060	2,060	3,164	6,094	336	191	782
397	Plastics products, n.e.c.....	8	121	353	100	147	191	465	61	(D)	(D)
398	Miscellaneous manufactures <sup>4</sup> ....	17	1,026	3,770	912	1,822	2,836	5,443	217	138	605
HOUSTON STANDARD METROPOLITAN AREA (Consists of Harris County, Texas)											
	All industries, total <sup>1</sup> ...	1,402	77,782	363,061	57,552	118,643	243,205	869,021	87,245	258,254	2384,718
20	Food and kindred products...	164	8,870	33,787	5,592	11,918	17,664	98,462	5,314	( <sup>3</sup> )	( <sup>3</sup> )
201	Meat products.....	26	1,022	3,769	737	1,565	2,430	5,848	286	1,169	4,531
202	Dairy products.....	21	1,727	6,885	654	1,604	2,213	18,615	610	( <sup>3</sup> )	( <sup>3</sup> )
203	Canned and frozen foods.....	6	125	353	107	168	200	479	25	(D)	(D)
204	Grain mill products.....	14	1,141	4,298	841	1,871	2,363	7,648	1,029	1,253	13,705
205	Bakery products.....	31	2,212	8,726	1,538	3,191	5,016	23,691	367	1,726	9,793
208	Beverages.....	13	996	3,721	509	961	1,531	8,388	560	1,163	9,036
209	Miscellaneous foods.....	45	1,616	5,988	1,180	2,522	3,872	33,726	2,430	1,563	15,789
22	Textile mill products.....	9	589	1,702	552	1,168	1,524	2,703	39	601	2,325
23	Apparel & related products..	56	1,772	3,966	1,572	2,906	2,949	5,384	167	1,940	8,281
232	Men's and boys' furnishings....	7	273	674	244	466	486	846	14	228	642
233	Women's and misses' outerwear..	7	400	986	361	654	788	1,842	91	397	920
24	Lumber and wood products....	88	1,511	4,316	1,315	2,602	3,283	6,975	274	2,176	8,298
242	Lumber and basic products.....	20	216	389	208	347	364	536	22	579	1,504
243	Millwork and related products...	33	428	1,352	340	664	953	1,931	54	642	2,320
244	Wooden containers.....	6	348	1,097	316	735	866	2,212	154	426	1,660
249	Miscellaneous wood products....	24	479	1,435	417	828	1,069	2,217	35	529	2,814
25	Furniture and fixtures.....	77	1,899	6,249	1,559	3,164	4,172	9,729	342	1,105	4,844
251	Household furniture.....	38	1,178	3,581	994	2,017	2,585	5,572	68	590	2,582
254	Partitions and fixtures.....	14	295	1,313	236	504	896	2,087	39	271	1,189
256	Screens, shades, and blinds....	19	360	1,138	274	503	514	1,648	161	(D)	(D)
26	Pulp, paper, and products....	16	2,877	13,306	2,223	5,053	9,704	23,243	3,223	1,181	8,759
267	Paperboard containers.....	3	434	1,630	356	853	1,187	2,657	110	(D)	(D)
27	Printing and publishing.....	173	3,865	17,696	2,354	4,589	10,223	28,940	3,522	3,098	18,749
271	Newspapers.....	21	2,140	10,004	1,125	2,206	5,246	15,893	3,094	1,627	10,928
272	Periodicals.....	13	146	817	13	23	42	1,904	11	(D)	(D)
275	Commercial printing.....	84	908	3,768	739	1,443	2,846	6,344	189	741	4,233
276	Lithographing.....	21	375	1,626	275	525	1,087	2,593	171	317	1,476
279	Printing trade services.....	18	221	1,237	158	308	853	1,625	43	162	931
28	Chemicals and products.....	106	9,071	47,001	6,504	13,348	31,505	197,728	16,085	4,500	48,514
281	Inorganic chemicals.....	11	1,713	8,780	1,302	2,699	6,357	37,645	4,989	(D)	(D)
282	Organic chemicals.....	11	4,229	23,723	3,139	6,403	16,704	111,286	7,507	(D)	(D)
285	Paints and allied products....	16	2,796	2,796	318	682	1,258	8,213	111	(D)	(D)
287	Fertilizers.....	6	964	4,420	730	1,518	3,137	14,939	2,107	(D)	(D)
288	Vegetable and animal oils.....	5	172	485	138	297	360	438	258	188	1,226
289	Chemical products, n.e.c.....	40	1,299	6,598	825	1,650	3,566	24,359	1,066	391	3,514
29	Petroleum and coal products.	21	12,028	69,162	8,524	16,454	45,975	152,809	32,886	10,955	89,595
291	Petroleum refining.....	12	11,620	67,299	8,215	15,798	44,640	149,439	30,696	10,846	89,039
299	Petroleum & coal prod., n.e.c..	6	114	417	61	135	200	1,354	47	(D)	(D)
30	Rubber products.....	8	429	1,726	362	774	1,325	2,968	331	(D)	(D)
309	Rubber industries, n.e.c.....	8	429	1,726	362	774	1,325	2,968	331	(D)	(D)
31	Leather and leather goods...	5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	(D)	(D)
32	Stone, clay, & glass prod...	68	1,995	7,512	1,566	3,422	5,231	19,247	3,881	1,560	10,994
324	Cement, hydraulic.....	3	598	2,484	484	1,042	1,867	10,356	2,740	578	6,637
325	Structural clay products.....	3	130	328	121	291	291	684	20	(D)	(D)
327	Concrete & plaster products....	36	567	1,670	417	900	1,063	3,200	165	(D)	(D)
329	Nonmet. mineral prod., n.e.c...	16	613	2,684	490	1,084	1,826	4,701	951	504	2,619
33	Primary metal industries....	45	5,293	26,891	4,580	9,546	21,574	51,999	4,558	3,949	16,960
332	Iron and steel foundries.....	13	728	3,080	641	1,324	2,355	5,172	140	713	2,763
336	Nonferrous foundries.....	11	172	639	153	270	467	1,009	53	139	589
34	Fabricated metal products...	161	7,799	34,246	5,982	12,808	24,253	56,509	5,071	4,877	27,613
344	Structural metal products.....	99	4,762	20,978	3,524	7,709	14,274	30,463	1,990	2,635	14,501
346	Metal stamping and coating....	15	213	728	173	353	531	1,321	128	360	1,382
348	Fabricated wire products.....	13	563	2,069	431	900	1,446	5,576	664	209	1,677
349	Metal products, n.e.c.....	17	696	3,201	537	1,124	2,261	4,028	513	(D)	(D)
35	Machinery, exc. electrical..	248	15,525	77,602	11,486	23,916	51,463	182,511	10,052	11,954	72,404
353	Construction & mining mach....	77	11,654	59,827	8,417	17,659	38,871	148,419	8,432	10,120	60,085
354	Metalworking machinery.....	11	303	1,555	233	502	1,123	3,072	196	(D)	(D)
356	General industrial machinery...	40	980	4,239	678	1,284	2,441	6,874	193	(D)	(D)
358	Service & household machines...	8	126	414	102	190	302	1,046	10	(D)	(D)
359	Miscellaneous mach. parts.....	101	2,372	11,226	1,978	4,122	8,464	21,986	1,208	892	6,116

See footnotes at end of table.

Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Code	Industry group	Establishments, number	1954							1947	
			All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
36	Electrical machinery.....	24	902	3,885	699	1,500	2,415	6,746	469	520	2,967
361	Elec. industrial apparatus.....	11	624	2,860	479	1,048	1,676	4,693	340	(D)	(D)
37	Transportation equipment....	40	929	3,846	770	1,533	2,804	5,869	101	1,241	4,560
373	Ships and boats.....	21	547	2,237	488	903	1,803	3,303	57	(D)	(D)
38	Instruments & related prod..	30	712	3,300	512	1,049	1,828	6,245	494	415	1,383
381	Scientific instruments.....	12	478	2,375	343	717	1,298	4,317	158	(D)	(D)
39	Miscellaneous manufactures <sup>4</sup> .	63	1,661	6,666	1,360	2,832	5,223	10,633	425	682	2,953
394	Toys and sporting goods.....	13	207	444	191	332	369	1,038	20	102	235
397	Plastics products, n.e.c.....	8	207	791	163	349	573	1,399	43	(D)	(D)
398	Miscellaneous manufactures <sup>4</sup> ....	32	923	4,460	813	1,771	3,787	7,397	340	208	1,098

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industry groups (3-digit) are not shown. Industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "All industries" line.

<sup>2</sup>The 1954 and 1947 "All industries" totals are not strictly comparable because of differences in scope between the two years in Major group 20 (see footnote 3).

<sup>3</sup>Comparable data for Major group 20 are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude plants processing and distributing fluid milk which in 1954 were classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
20	Food and kindred products except Subgroup 202, Dairy Products:				
	Dallas.....	8,635	76,905	6,869	59,517
	Fort Worth.....	8,575	68,203	8,900	46,000
	Houston.....	7,143	79,847	7,068	53,472

<sup>4</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)



## MANUFACTURES—AREA STATISTICS

Table 6.—GENERAL STATISTICS FOR PRINCIPAL INDUSTRIAL COUNTIES, BY MAJOR INDUSTRY GROUP: 1954 AND 1947

(Principal industrial counties include all counties with 20,000 or more manufacturing employees. For explanation of column captions see Introduction)

Code	Major industry group	1954							1947		
		Establish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
		Dallas County is coextensive with the Dallas Standard Metropolitan Area. Data for this area are shown in Table 5.									
		Harris County is coextensive with the Houston Standard Metropolitan Area. Data for this area are shown in Table 5.									
		JEFFERSON COUNTY									
	All industries, total <sup>1</sup> .....	190	25,445	125,098	20,260	40,117	94,567	222,802	66,999	<sup>2</sup> 23,181	<sup>2</sup> 177,508
20	Food and kindred products.....	47	1,101	3,715	685	1,529	1,827	7,203	612	1,157	7,103
24	Lumber and wood products.....	17	535	1,205	508	1,044	1,070	1,732	17	713	2,646
27	Printing and publishing.....	19	550	2,161	288	534	1,121	3,500	151	450	2,603
28	Chemicals and products.....	11	1,558	8,116	1,150	2,295	5,682	33,878	2,351	950	16,176
29	Petroleum and coal products...	9	17,653	92,422	14,479	28,080	72,268	151,094	62,318	16,743	133,810
32	Stone, clay and glass products	9	125	406	100	233	256	903	37	113	363
33	Primary metal industries.....	8	259	1,012	216	426	764	1,828	39	269	1,134
34	Fabricated metal products.....	15	1,058	4,444	837	1,558	3,176	7,974	381	1,235	5,846
35	Machinery, exc. electrical....	16	917	4,306	637	1,473	2,967	5,472	170	276	(D)
37	Transportation equipment.....	11	1,425	6,539	1,144	2,500	4,862	7,835	408	1,052	(D)
39	Miscellaneous manufactures <sup>3</sup> ...	4	15	62	12	32	48	96	...	18	86
		Tarrant County is coextensive with the Fort Worth Standard Metropolitan Area. Data for this area are shown in Table 5.									

D Withheld to avoid disclosing data for individual companies.

<sup>1</sup>In order to avoid disclosing data for individual companies, the statistics for some industry groups are not shown. Industry groups reporting less than 100 employees are also omitted. They are included, however, in the "All industries" line.<sup>2</sup>The 1954 and 1947 "All industries" totals are not strictly comparable because of differences in coverage of loggers and fluid milk distributors. See discussion in Introduction and footnote to Table 4 for comparable figures at the State level.<sup>3</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)

Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954

20 Food and kindred products	26 Pulp, paper and products	32 Stone, clay, and glass products	38 Instruments and related products
21 Tobacco manufactures	27 Printing and publishing	33 Primary metal industries	39 Miscellaneous manufactures (Includes Group 19 Ordnance and accessories)
22 Textile mill products	28 Chemicals and products	34 Fabricated metal products	
23 Apparel and related products	29 Petroleum and coal products	35 Machinery, except electrical	
24 Lumber and wood products	30 Rubber products	36 Electrical machinery	
25 Furniture and fixtures	31 Leather and leather goods	37 Transportation equipment	

(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Texas, total.....	8,890	1,921	3	67	511	1,042	476	86	1,364	522	111	27	107	411	155	586	783	85	180	83	370
1 to 4 employees.....	3,533	622	1	16	127	529	245	12	728	138	19	10	43	148	33	235	308	32	53	36	198
5 to 9 employees.....	1,486	351	1	8	48	186	71	8	286	85	7	3	13	63	17	85	134	13	23	24	60
10 to 19 employees.....	1,258	305	...	7	70	138	66	9	171	70	11	2	16	68	18	81	122	12	33	6	53
20 to 49 employees.....	1,262	317	...	5	123	90	51	25	106	122	14	4	22	60	38	99	103	12	30	8	33
50 to 99 employees.....	617	171	...	6	64	52	28	13	39	43	14	3	5	32	13	44	55	5	16	3	11
100 to 249 employees.....	452	107	...	11	57	35	7	11	19	33	20	4	5	33	17	27	37	8	8	5	8
250 to 499 employees.....	185	41	1	12	17	10	8	5	10	16	12	...	3	6	6	12	16	1	5	1	3
500 to 999 employees.....	58	5	...	1	5	2	...	2	5	9	6	...	...	1	6	3	5	1	5	...	2
1,000 to 2,499 employees.....	27	2	...	1	...	...	...	1	...	5	4	1	...	...	6	...	2	1	2	...	2
2,500 employees and over.....	12	...	...	...	...	...	...	...	...	1	4	...	...	...	1	...	1	...	5	...	...
Anderson:																					
1 to 19 employees.....	26	7	...	...	...	14	...	...	3	...	...	...	...	2	...	...	...	...	...	...	...
20 to 99 employees.....	7	3	...	...	2	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Andrews:																					
1 to 19 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Angelina:																					
1 to 19 employees.....	42	8	...	...	...	22	4	...	4	...	...	...	...	2	...	...	2	...	...	...	...
20 to 99 employees.....	14	4	...	...	...	5	...	...	1	...	...	...	...	...	1	2	1	...	...	...	...
100 employees and over.....	9	...	...	...	...	3	...	2	...	...	...	...	...	...	2	...	1	...	1	...	...
Aransas:																					
1 to 19 employees.....	3	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
Archer:																					
1 to 19 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Atascosa:																					
1 to 19 employees.....	6	3	...	...	...	...	...	...	2	1	...	...	...	...	...	...	...	...	...	...	...
Austin:																					
1 to 19 employees.....	10	3	...	...	...	1	2	...	3	...	...	...	...	...	...	...	...	...	...	...	1
20 to 99 employees.....	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
Bailey:																					
1 to 19 employees.....	3	1	...	...	...	...	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Bandera:																					
1 to 19 employees.....	7	1	...	...	2	...	1	...	1	...	...	...	...	...	...	1	...	...	...	...	1
Bastrop:																					
1 to 19 employees.....	13	3	...	...	...	4	1	...	3	1	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	3	...	...	...	...	...	1	...	...	...	...	...	...	2	...	...	...	...	...	...	...
Baylor:																					
1 to 19 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Bee:																					
1 to 19 employees.....	4	1	...	...	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1
20 to 99 employees.....	2	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...
Bell:																					
1 to 19 employees.....	45	12	...	...	3	2	4	...	12	2	...	...	1	...	...	4	3	1	...	...	1
20 to 99 employees.....	12	2	...	...	...	3	...	...	2	1	...	...	2	1	...	...	1	...	...	...	...
100 employees and over.....	4	...	...	...	1	...	2	...	...	...	...	...	1	...	...	...	...	...	...	...	...
Bexar:																					
1 to 19 employees.....	397	77	...	1	20	21	35	5	73	31	...	1	8	19	3	28	28	3	5	5	34
20 to 99 employees.....	110	36	...	...	15	5	5	6	6	6	3	...	4	7	1	3	5	1	2	1	4
100 employees and over.....	44	19	1	1	10	1	...	...	4	...	...	...	...	1	2	4	1	...	...	...	...
Blanco:																					
1 to 19 employees.....	3	...	...	...	...	...	...	...	1	...	...	...	1	...	...	1	...	...	...	...	...
Bosque:																					
1 to 19 employees.....	7	1	...	...	...	1	1	...	3	...	...	...	...	...	...	...	1	...	...	...	...
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Bowie:																					
1 to 19 employees.....	33	4	...	...	1	14	...	...	6	2	...	...	...	2	...	2	...	...	...	...	2
20 to 99 employees.....	18	8	...	...	...	6	...	...	...	1	...	...	...	...	...	...	...	...	1	1	1
100 employees and over.....	8	1	...	...	...	4	...	...	1	...	...	...	...	1	...	...	...	...	...	...	1
Brazoria:																					
1 to 19 employees.....	16	4	...	...	...	2	2	...	2	1	...	...	...	...	1	2	1	...	1	...	...
20 to 99 employees.....	6	...	...	...	...	1	...	...	1	2	1	...	...	...	...	...	...	...	1	...	...
100 employees and over.....	4	...	...	...	...	...	...	...	...	2	1	...	...	...	1	...	...	...	...	...	...
Brazos:																					
1 to 19 employees.....	22	6	...	...	...	1	1	...	5	3	...	...	1	...	...	2	1	...	...	...	2
20 to 99 employees.....	4	2	...	...	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...
Brewster:																					
1 to 19 employees.....	8	2	...	...	...	...	...	...	1	2	...	...	1	...	...	...	...	...	...	...	2
Briscoe:																					
1 to 19 employees.....	2	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
Brooks:																					
1 to 19 employees.....	2	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	2	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
Brown:																					
1 to 19 employees.....	21	15	...	...	...	...	1	...	2	...	...	...	...	1	...	2	...	...	...	...	...
20 to 99 employees.....	6	1	...	1	2	...	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...

(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Burleson:																					
1 to 19 employees.....	7	2	...	...	...	1	...	...	2	2	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...
Burnet:																					
1 to 19 employees.....	4	...	...	...	...	...	...	...	2	...	...	...	...	1	...	...	1	...	...	...	...
Caldwell:																					
1 to 19 employees.....	13	6	...	...	...	...	1	...	4	...	...	...	...	...	...	...	1	...	...	...	1
20 to 99 employees.....	2	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Calhoun:																					
1 to 19 employees.....	4	2	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	...	...	...	...	...	1	...	...	...	...	1	...	...	...	...	...	...
Callahan:																					
1 to 19 employees.....	5	2	...	...	...	1	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...
Cameron:																					
1 to 19 employees.....	81	27	...	7	1	3	4	1	11	5	...	...	...	3	...	2	6	...	8	...	3
20 to 99 employees.....	26	16	...	...	...	...	...	...	2	4	1	...	...	1	...	1	1	...	...	...	...
100 employees and over.....	5	4	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Camp:																					
1 to 19 employees.....	10	2	...	...	1	3	...	...	1	...	...	...	...	1	...	1	...	1	...	...	...
20 to 99 employees.....	2	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Carson:																					
1 to 19 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	2	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Cass:																					
1 to 19 employees.....	19	5	...	...	...	11	...	...	2	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	3	...	...	...	1	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
Castro:																					
1 to 19 employees.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
Chambers:																					
1 to 19 employees.....	5	3	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Cherokee:																					
1 to 19 employees.....	46	6	...	...	2	27	2	...	7	1	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	16	2	...	...	...	11	2	...	...	1	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	4	...	...	...	1	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Childress:																					
1 to 19 employees.....	8	4	...	...	...	...	...	...	2	...	...	...	...	...	...	...	2	...	...	...	...
Clay:																					
1 to 19 employees.....	4	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	2	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
Cochran:																					
1 to 19 employees.....	2	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Coke:																					
1 to 19 employees.....	2	...	...	...	...	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...	...
Coleman:																					
1 to 19 employees.....	8	3	...	...	...	...	...	...	2	...	...	...	1	1	...	1	...	...	...	...	...
20 to 99 employees.....	5	1	...	...	1	...	...	...	...	1	...	...	...	2	...	...	...	...	...	...	...
Collin:																					
1 to 19 employees.....	16	8	...	...	1	...	...	...	7	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	9	2	...	...	4	...	...	...	...	...	...	...	...	...	1	1	1	...	...	...	...
100 employees and over.....	2	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Collingsworth:																					
1 to 19 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Colorado:																					
1 to 19 employees.....	14	8	...	...	...	1	...	...	3	1	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Comal:																					
1 to 19 employees.....	13	5	...	...	1	1	...	...	3	1	...	...	1	...	...	...	...	...	...	...	1
20 to 99 employees.....	2	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
100 employees and over.....	5	1	...	2	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Comanche:																					
1 to 19 employees.....	10	4	...	...	...	...	...	...	2	2	...	...	1	...	...	...	1	...	...	...	...
20 to 99 employees.....	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Concho:																					
1 to 19 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Cooke:																					
1 to 19 employees.....	21	5	...	...	1	...	1	...	5	1	1	...	...	1	1	...	1	1	2	...	1
20 to 99 employees.....	7	2	...	...	3	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1
100 employees and over.....	3	1	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...
Coryell:																					
1 to 19 employees.....	6	1	...	...	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	2
20 to 99 employees.....	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
Cottle:																					
1 to 19 employees.....	4	2	...	...	...	...	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...
Crane:																					
1 to 19 employees.....	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
Crockett:																					
1 to 19 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Crosby:																					
1 to 19 employees.....	4	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	2	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Culberson:																					
1 to 19 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...



(Counties and size classes in which no manufacturing establishments were reported are omitted)

[illegible]



(Counties and size classes in which no manufacturing establishments were reported are omitted)

[illegible]



## MANUFACTURES—AREA STATISTICS

Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954—Continued  
(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establish- ments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Leon:																					
1 to 19 employees.....	7	1	...	...	...	4	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...
Liberty:																					
1 to 19 employees.....	40	3	...	...	1	31	...	...	2	...	...	...	...	3	...	...	...	...	...	...	...
20 to 99 employees.....	10	...	...	...	...	9	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Limestone:																					
1 to 19 employees.....	12	4	...	...	...	2	...	...	3	1	...	...	...	1	...	...	1	...	...	...	...
20 to 99 employees.....	2	...	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Live Oak:																					
1 to 19 employees.....	2	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...
Llano:																					
1 to 19 employees.....	4	...	...	...	...	...	...	...	1	...	...	...	1	2	...	...	...	...	...	...	...
20 to 99 employees.....	2	...	...	...	...	...	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...
Lubbock:																					
1 to 19 employees.....	98	22	...	...	3	11	9	...	15	6	1	...	...	4	...	5	17	1	...	...	4
20 to 99 employees.....	21	13	...	...	1	...	...	...	...	...	...	...	...	1	1	2	3	...	...	...	...
100 employees and over.....	7	2	...	...	...	...	...	...	1	3	...	...	...	1	...	...	...	...	...	...	...
Lynn:																					
1 to 19 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
McCulloch:																					
1 to 19 employees.....	8	4	...	...	...	...	...	...	3	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	2	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
McLennan:																					
1 to 19 employees.....	100	33	...	1	8	5	4	...	20	4	...	...	1	4	1	8	1	...	...	1	9
20 to 99 employees.....	31	11	...	...	6	1	3	...	3	3	...	...	...	2	...	...	2	...	...	...	...
100 employees and over.....	16	3	...	1	4	1	1	...	1	...	...	1	...	2	...	1	...	...	1	...	...
Madison:																					
1 to 19 employees.....	5	2	...	...	...	2	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Marion:																					
1 to 19 employees.....	11	...	...	...	...	7	...	...	1	...	...	...	...	1	...	...	...	...	...	...	2
20 to 99 employees.....	3	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Martin:																					
1 to 19 employees.....	4	3	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Mason:																					
1 to 19 employees.....	3	1	...	...	...	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...	...
Matagorda:																					
1 to 19 employees.....	16	5	...	...	...	1	1	...	3	1	1	...	...	1	...	...	...	...	2	...	1
20 to 99 employees.....	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Maverick:																					
1 to 19 employees.....	5	2	...	...	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Medina:																					
1 to 19 employees.....	8	3	...	...	...	2	...	...	2	...	...	1	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	4	1	...	...	...	1	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Midland:																					
1 to 19 employees.....	25	5	...	...	1	3	...	...	7	2	...	...	...	1	...	2	3	...	...	...	1
20 to 99 employees.....	5	1	...	...	...	...	...	...	2	...	...	...	...	1	...	...	1	...	...	...	...
100 employees and over.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Milam:																					
1 to 19 employees.....	7	...	...	...	...	2	...	...	2	2	...	...	1	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...
Mills:																					
1 to 19 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Mitchell:																					
1 to 19 employees.....	6	3	...	...	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...
Montague:																					
1 to 19 employees.....	12	4	...	...	...	...	1	...	3	...	...	...	1	1	...	1	...	...	...	...	1
20 to 99 employees.....	3	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	1
Montgomery:																					
1 to 19 employees.....	56	1	...	...	...	50	1	...	3	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	6	...	...	...	...	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	4	...	...	...	...	3	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
Moore:																					
1 to 19 employees.....	4	1	...	...	...	...	...	...	1	1	...	...	...	...	...	...	1	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	4	...	...	...	...	...	...	...	...	2	1	...	...	...	1	...	...	...	...	...	...
Morris:																					
1 to 19 employees.....	8	1	...	...	...	4	...	...	2	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	2	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	1	...	...	...	...
100 employees and over.....	4	...	...	...	...	...	...	...	...	...	1	...	...	...	3	...	...	...	...	...	...
Motley:																					
1 to 19 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Nacogdoches:																					
1 to 19 employees.....	38	6	...	...	...	26	3	...	...	2	...	...	...	...	...	...	1	...	...	...	...
20 to 99 employees.....	10	4	...	...	...	3	...	...	1	...	...	...	...	2	...	...	...	...	...	...	...
100 employees and over.....	6	2	...	...	1	2	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...

(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Navarro:																					
1 to 19 employees.....	22	9	...	...	1	3	1	1	4	...	...	...	...	1	...	...	1	...	...	...	1
20 to 99 employees.....	11	4	...	...	2	...	1	...	1	1	...	...	...	1	...	...	...	...	...	...	1
100 employees and over.....	6	1	...	2	1	...	...	...	...	...	...	...	...	...	1	...	1	...	...	...	...
Newton:																					
1 to 19 employees.....	26	...	...	...	...	25	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Nolan:																					
1 to 19 employees.....	10	5	...	...	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	6	3	...	...	...	...	...	...	...	...	1	...	...	1	...	1	...	...	...	...	...
100 employees and over.....	3	...	...	...	...	...	...	...	...	1	...	...	...	2	...	...	...	...	...	...	...
Nueces:																					
1 to 19 employees.....	109	27	...	...	2	4	10	...	21	3	...	1	...	5	3	7	11	...	3	1	11
20 to 99 employees.....	26	10	...	...	...	1	...	...	1	4	1	...	...	...	1	3	3	...	2	...	...
100 employees and over.....	15	6	...	...	...	...	...	...	1	2	4	...	...	1	1	...	...	...	...	...	...
Ochiltree:																					
1 to 19 employees.....	10	6	...	...	1	...	...	...	1	...	...	...	...	1	...	1	...	...	...	...	...
Oldham:																					
1 to 19 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Orange:																					
1 to 19 employees.....	23	5	...	...	...	4	3	...	3	1	...	...	...	2	...	3	...	...	1	...	1
20 to 99 employees.....	9	2	...	...	...	1	...	...	1	1	...	...	...	...	...	...	...	...	2	...	1
100 employees and over.....	7	...	...	...	...	2	...	1	...	2	...	...	...	...	1	...	...	...	1	...	...
Palo Pinto:																					
1 to 19 employees.....	14	3	...	...	...	2	...	...	3	1	...	...	...	1	...	...	2	1	...	1	...
20 to 99 employees.....	8	1	...	1	...	...	...	1	...	...	...	...	...	3	...	1	...	...	...	...	1
100 employees and over.....	2	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	...	...	...	...	...
Panola:																					
1 to 19 employees.....	12	2	...	...	...	5	1	...	2	...	...	...	...	1	...	...	1	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Parker:																					
1 to 19 employees.....	16	4	...	...	1	1	1	...	3	1	...	...	...	2	...	2	1	...	...	...	...
20 to 99 employees.....	2	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
100 employees and over.....	2	...	...	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Parmer:																					
1 to 19 employees.....	3	1	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
Pecos:																					
1 to 19 employees.....	4	2	...	...	...	...	...	...	1	...	...	...	...	...	...	1	...	...	...	...	...
Polk:																					
1 to 19 employees.....	39	3	...	...	...	31	...	...	2	...	...	...	...	1	...	...	2	...	...	...	...
20 to 99 employees.....	2	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	3	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Potter:																					
1 to 19 employees.....	88	21	...	...	3	5	10	...	17	4	1	...	4	2	2	5	6	...	1	1	6
20 to 99 employees.....	24	13	...	...	...	1	1	...	...	1	...	...	...	...	1	3	4	...	...	...	...
100 employees and over.....	6	3	...	...	...	1	...	...	1	...	1	...	...	...	1	...	...	...	...	...	...
Presidio:																					
1 to 19 employees.....	5	4	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Rains:																					
1 to 19 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Randall:																					
1 to 19 employees.....	7	1	...	...	...	1	1	...	2	...	...	...	...	...	...	1	...	...	...	...	1
Reagan:																					
1 to 19 employees.....	2	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...
Real:																					
1 to 19 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Red River:																					
1 to 19 employees.....	23	4	...	...	...	16	...	...	1	...	...	...	...	...	...	...	2	...	...	...	...
20 to 99 employees.....	3	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1	...	...	...	...	1
Reeves:																					
1 to 19 employees.....	11	5	...	...	...	...	...	...	1	2	...	...	...	1	...	1	1	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
Refugio:																					
1 to 19 employees.....	3	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...
Roberts:																					
1 to 19 employees.....	2	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Robertson:																					
1 to 19 employees.....	12	3	...	...	...	3	...	...	4	...	...	...	...	...	...	1	1	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Rockwall:																					
1 to 19 employees.....	3	...	...	...	...	...	...	...	2	...	...	...	1	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...
Runnels:																					
1 to 19 employees.....	7	3	...	...	...	...	...	...	3	...	...	...	...	...	...	1	...	...	...	...	...
20 to 99 employees.....	2	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
Rusk:																					
1 to 19 employees.....	30	5	...	...	1	8	1	...	6	...	...	...	...	2	...	4	2	...	...	1	...
20 to 99 employees.....	8	...	...	...	3	2	...	...	1	...	...	...	...	2	...	...	...	...	...	...	...
Sabine:																					
1 to 19 employees.....	7	...	...	...	...	6	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
San Augustine:																					
1 to 19 employees.....	13	...	...	...	...	12	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
San Jacinto:																					
1 to 19 employees.....	14	...	...	...	...	14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

(Counties and size classes in which no manufacturing establishments were reported are omitted)

[illegible]



Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954—Continued  
(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establish- ments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Walker:																					
1 to 19 employees.....	20	3	...	...	1	14	...	...	...	...	...	...	...	1	...	...	...	...	...	...	1
20 to 99 employees.....	4	...	...	...	...	3	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Waller:																					
1 to 19 employees.....	8	1	...	...	...	4	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...
Ward:																					
1 to 19 employees.....	4	2	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	4	2	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...
Washington:																					
1 to 19 employees.....	16	7	...	...	1	...	1	...	3	...	...	...	...	2	...	1	1	...	...	...	...
20 to 99 employees.....	4	1	...	...	...	...	1	...	...	1	...	...	...	...	...	...	...	...	...	...	1
100 employees and over.....	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Webb:																					
1 to 19 employees.....	22	8	...	2	...	...	2	...	4	2	...	...	...	3	...	...	...	...	1	...	...
20 to 99 employees.....	9	3	...	...	4	...	...	...	1	...	...	...	...	...	1	...	...	...	...	...	...
100 employees and over.....	2	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Wharton:																					
1 to 19 employees.....	20	11	...	...	1	2	...	...	5	...	...	...	...	...	...	...	1	...	...	...	...
20 to 99 employees.....	6	3	...	...	1	...	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...
Wheeler:																					
1 to 19 employees.....	6	3	...	...	...	...	...	...	2	1	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
Wichita:																					
1 to 19 employees.....	68	15	...	...	6	2	4	...	10	3	1	...	2	4	1	5	10	...	...	...	5
20 to 99 employees.....	24	9	...	...	1	1	...	...	...	2	...	...	...	...	1	4	5	...	1	...	...
100 employees and over.....	9	2	...	...	1	...	...	...	1	...	2	...	...	...	1	...	2	...	...	...	...
Willbarger:																					
1 to 19 employees.....	14	8	...	...	...	2	...	...	1	...	...	...	2	...	...	...	1	...	...	...	...
20 to 99 employees.....	3	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Willacy:																					
1 to 19 employees.....	8	4	...	...	...	...	1	...	2	...	...	...	...	...	...	...	1	...	...	...	...
20 to 99 employees.....	2	...	...	...	...	...	...	...	...	1	...	...	1	...	...	...	...	...	...	...	...
100 employees and over.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Williamson:																					
1 to 19 employees.....	21	6	...	...	...	3	2	...	5	2	...	...	...	...	...	...	2	...	...	...	1
20 to 99 employees.....	8	2	...	...	1	...	1	...	1	1	...	...	...	2	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...
Wilson:																					
1 to 19 employees.....	4	3	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Winkler:																					
1 to 19 employees.....	5	3	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
Wise:																					
1 to 19 employees.....	11	7	...	...	...	1	...	...	2	...	...	...	...	...	...	...	1	...	...	...	...
20 to 99 employees.....	3	...	...	...	1	...	...	...	...	...	...	...	...	1	...	1	...	...	...	...	...
Wood:																					
1 to 19 employees.....	26	5	...	...	...	16	1	...	4	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	4	1	...	...	1	1	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
Yoakum:																					
1 to 19 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
Young:																					
1 to 19 employees.....	12	5	...	...	...	...	1	...	4	...	...	...	...	1	...	...	1	...	...	...	...
20 to 99 employees.....	2	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...
Zavala:																					
1 to 19 employees.....	5	2	...	...	...	...	...	...	1	1	...	...	...	...	...	...	1	...	...	...	...
20 to 99 employees.....	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...



# UTAH (29 COUNTIES)

## LEGEND

● PLACES OF 25,000 TO 100,000 (1950)

★ PLACES OF 100,000 AND OVER (1950)

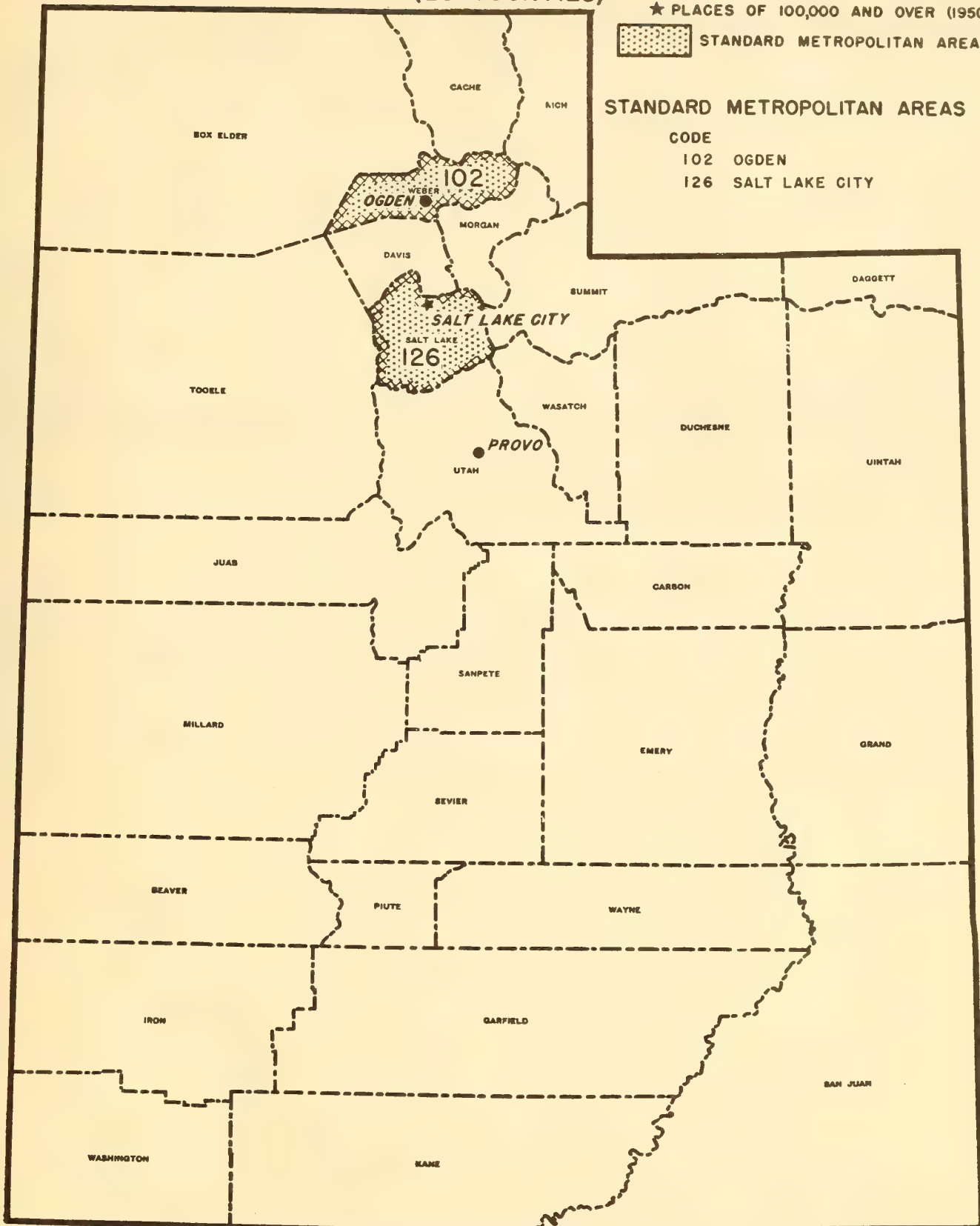
 STANDARD METROPOLITAN AREAS

## STANDARD METROPOLITAN AREAS

### CODE

102 OGDEN

126 SALT LAKE CITY





## MANUFACTURES—AREA STATISTICS

Table 1.—MANUFACTURING EMPLOYMENT AT OPERATING ESTABLISHMENTS AND CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARIES FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS

(This table includes data for all manufacturing employees including those located in central administrative offices and auxiliaries. Tables 2-7 in this report include data for operating establishments only. For explanation of column captions see Introduction)

State, standard metropolitan areas, and year <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	(Number)	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
Utah:						
1954.....	29,947	120,623	29,364	117,520	583	3,103
1953 <sup>2</sup> .....	35,045	126,890	34,344	123,290	701	3,600
1952 <sup>2</sup> .....	32,561	112,541	32,245	110,853	<sup>3</sup> 316	<sup>3</sup> 1,688
1951 <sup>2</sup> .....	30,377	106,961	30,061	105,273	316	1,688
1950 <sup>2</sup> .....	29,377	86,235	28,445	82,443	932	3,792
1949 <sup>2</sup> .....	29,788	82,790	29,296	80,670	492	2,120
1954						
Standard metropolitan areas:						
Ogden <sup>4</sup> .....	3,079	11,712	2,937	11,029	142	683
Salt Lake City <sup>5</sup> .....	15,511	62,362	15,110	60,156	401	2,206

<sup>1</sup>Employment data for administrative offices and auxiliaries on a State basis are not available for the years prior to 1949. Similar data for standard metropolitan areas are available only for 1954.<sup>2</sup>The employment figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period. The employment figures for administrative and auxiliary units were compiled chiefly from Bureau of Old-Age and Survivors Insurance records and are not strictly comparable with the figures for these units that were collected by the Bureau of the Census for the year 1954.<sup>3</sup>The 1951 data is shown for 1952 as auxiliary and administrative unit data were not collected in 1952.<sup>4</sup>The Ogden Standard Metropolitan Area consists of Weber County, Utah.<sup>5</sup>The Salt Lake City Standard Metropolitan Area consists of Salt Lake County, Utah.

Table 2.—GENERAL STATISTICS FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Year	Establish- ments, number	All employees		Production workers		Value added by manufacture (\$1,000)
		Number	Payroll (\$1,000)	Number	Wages (\$1,000)	
UTAH						
1954 <sup>1</sup> .....	852	29,364	117,520	22,553	82,442	276,343
1953 <sup>2</sup> .....	} (NA) {	34,344	123,290	26,878	89,860	272,449
1952 <sup>2</sup> .....		32,561	112,541	25,045	81,513	229,876
1951 <sup>2</sup> .....		30,061	105,273	24,263	77,886	223,221
1950 <sup>2</sup> .....		28,445	82,443	21,868	62,706	177,504
1949 <sup>2</sup> .....		29,296	80,670	22,849	57,057	138,268
1947.....	771	24,503	63,773	19,963	48,031	128,250
1939.....	549	15,537	18,970	11,467	11,873	43,341
1937.....	552	15,542	19,054	13,094	14,479	47,946
1935.....	538	13,228	14,584	10,808	10,304	33,899
1933.....	440	(NA)	(NA)	10,213	9,299	31,605
1931.....	578	(NA)	(NA)	10,762	12,511	32,188
1929.....	651	18,510	26,107	15,601	19,699	56,727
1927.....	566	(NA)	(NA)	13,585	16,689	42,551
1925.....	517	(NA)	(NA)	15,077	18,200	49,681
1923.....	585	(NA)	(NA)	14,945	18,344	47,424
1921.....	645	(NA)	(NA)	13,310	18,392	36,183
1919.....	1,035	21,526	26,524	18,442	20,931	45,831
1914.....	1,102	16,089	13,669	13,863	10,829	24,837
1909.....	749	13,445	10,366	11,785	8,400	20,724
1904.....	606	9,031	6,196	8,052	5,157	13,987
1899.....	575	6,012	3,263	5,413	2,763	6,541
STANDARD METROPOLITAN AREAS (None with 40,000 or more manufacturing employees in this State)						

NA Not available.

<sup>1</sup>The 1954 figures include data for establishments engaged in the processing and distribution of fluid milk, Industry Group 202, Dairy Products. These establishments were not included in the figures for the Annual Survey years 1949-1953 or earlier Census years. In addition, the 1954 Census and Annual Survey years include data for Logging Camps and Contractors, Industry 2411, which were not included within the scope of the 1947 Census. See footnotes to Table 4 for comparable 1954 and 1947 totals. There were also a number of changes in the definition of manufacturing industries during earlier Census years that affect the comparability of the historical series. Among the more important of these were: figures for 1935 and later years exclude data for "Railroad repair shops" and "Manufactured gas" which were included in 1899-1933 figures; the minimum size of establishment included for 1954 and 1947 was one employee, for 1939-1921 manufacturing establishments reporting value of shipments of \$5,000 or more whereas for 1919 and earlier years the cutoff was \$500. (This change in procedure has not appreciably affected the comparability of the historical data except for the figures on number of establishments.)

<sup>2</sup>The employment and payroll figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments.

## MANUFACTURES—AREA STATISTICS

Table 3.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947

(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
Utah, total.....	688,862	852	29,364	117,520	22,553	44,790	82,442	276,343	23,385	( <sup>1</sup> )	( <sup>1</sup> )
STANDARD METROPOLITAN AREAS											
Ogden.....	83,319	85	2,937	11,029	2,116	4,274	7,256	21,743	1,896	3,303	14,470
Salt Lake City.....	274,895	446	15,110	60,156	11,432	22,735	40,656	161,496	8,193	10,836	57,779
COUNTIES											
Beaver.....	4,856	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	13	(D)
Box Elder.....	19,734	21	425	1,164	378	673	950	2,063	157	581	2,349
Cache.....	33,536	36	788	2,305	667	1,299	1,840	5,460	350	881	6,902
Carbon.....	24,901	12	142	549	117	202	449	802	121	156	779
Daggett.....	364	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	11	63
Davis.....	30,867	32	1,071	4,153	787	1,639	2,846	9,703	1,270	766	4,440
Duchesne.....	8,134	10	46	91	41	76	80	143	35	45	146
Emery.....	6,304	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Garfield.....	4,151	11	54	86	51	75	77	195	17	72	214
Grand.....	1,903	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Iron.....	9,642	8	46	135	24	45	69	206	8	110	274
Juab.....	5,981	3	362	(D)	298	(D)	(D)	(D)	(D)	100	341
Kane.....	2,299	5	25	72	21	40	60	138	17	32	74
Millard.....	9,387	5	29	99	22	46	77	156	(D)	41	193
Morgan.....	2,519	4	199	771	169	322	606	3,723	237	(D)	(D)
Piute.....	1,911	...	...	...	...	...	...	...	...	5	(D)
Rich.....	1,673	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Salt Lake.....	274,895	446	15,110	60,156	11,432	22,735	40,656	161,496	8,193	10,836	57,779
San Juan.....	5,315	3	40	110	35	70	90	252	23	31	128
Sanpete.....	13,891	14	(D)	(D)	(D)	(D)	(D)	(D)	(D)	418	2,051
Sevier.....	12,072	16	(D)	(D)	(D)	(D)	(D)	(D)	(D)	181	558
Summit.....	6,745	11	76	249	62	139	200	282	33	49	177
Tooele.....	14,636	9	479	2,311	340	743	1,583	4,616	282	522	(D)
Uintah.....	10,300	12	86	250	72	144	200	516	54	128	603
Utah.....	81,912	84	6,734	30,397	5,316	10,354	22,505	56,578	10,223	5,894	31,105
Wasatch.....	5,574	8	106	310	82	149	196	440	49	86	281
Washington.....	9,836	8	42	97	36	66	86	181	18	66	140
Wayne.....	2,205	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5	(D)
Weber.....	83,319	85	2,937	11,029	2,116	4,274	7,256	21,743	1,896	3,303	14,470
CITIES WITH 10,000 INHAB- ITANTS OR MORE											
Logan.....	16,832	22	346	819	284	529	587	1,616	35	322	1,029
Ogden.....	57,112	67	2,404	9,056	1,702	3,348	5,785	15,661	1,649	2,774	11,962
Provo.....	28,937	31	706	2,025	585	1,045	1,539	4,034	267	561	1,703
Salt Lake City.....	182,121	358	11,072	43,434	8,108	16,298	27,922	95,859	6,269	7,927	42,254

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>The 1947 data are not strictly comparable with the figures shown for 1954 due to differences in coverages of loggers and fluid milk distributors. See discussion in Introduction and footnotes to Table 4.



Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establish- ments, number		All employees		Production workers			Value added by manufacture	Value of shipments	Capital expendi- tures, new	All employees, number	Value added by manufacture
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
	All industries, total <sup>1</sup> ...	852	234	29,364	117,520	22,553	44,790	82,442	276,343	( <sup>2</sup> )	23,385	( <sup>3</sup> )	( <sup>3</sup> )
20	Food and kindred products..	258	85	7,540	26,111	5,549	11,232	16,986	50,053	( <sup>2</sup> )	3,825	( <sup>3</sup> )	( <sup>3</sup> )
201	Meat products.....	34	15	1,597	5,961	1,229	2,511	4,255	7,754	( <sup>2</sup> )	716	1,261	5,324
2011	Meat packing, plants.....	21	9	1,129	5,022	791	1,774	3,418	6,914	( <sup>2</sup> )	293	750	3,753
2015	Poultry dressing, plants.....	8	6	441	863	418	697	775	663	2,642	(D)	481	(D)
202	Dairy products.....	63	13	1,127	3,729	683	1,348	2,008	9,043	( <sup>2</sup> )	730	( <sup>3</sup> )	( <sup>3</sup> )
2021	Creamery butter.....	4	2	118	392	62	129	174	1,273	4,334	27	( <sup>3</sup> )	( <sup>3</sup> )
2024	Ice cream and ices.....	18	4	278	767	188	322	431	1,465	3,766	242	( <sup>3</sup> )	( <sup>3</sup> )
2027	Fluid milk and other products..	22	4	535	1,938	258	546	856	3,616	10,852	288	( <sup>3</sup> )	( <sup>3</sup> )
203	Canned and frozen foods.....	29	19	1,076	2,766	961	1,806	2,160	4,524	( <sup>2</sup> )	1,152	1,936	6,806
2033	Canned fruits and vegetables...	23	15	846	2,110	753	1,380	1,599	3,541	9,294	1,061	1,786	6,320
204	Grain mill products.....	31	7	744	3,085	541	1,306	2,271	9,994	( <sup>2</sup> )	399	738	5,816
2041	Flour and meal.....	13	3	481	2,182	332	851	1,593	8,432	36,678	269	491	4,296
205	Bakery products.....	32	11	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2051	Bread and related products.....	31	10	968	3,752	588	1,133	1,915	7,080	13,596	268	(D)	(D)
206	Sugar.....	5	5	575	2,097	493	1,092	1,766	2,684	10,698	188	725	5,621
2063	Beet sugar.....	5	5	575	2,097	493	1,092	1,766	2,684	10,698	188	725	5,621
207	Candy and related products...	18	5	526	1,576	419	862	977	2,627	5,380	52	724	4,116
2071	Confectionery products.....	18	5	526	1,576	419	862	977	2,627	5,380	52	724	4,116
208	Beverages.....	26	4	405	1,526	230	482	721	3,028	( <sup>2</sup> )	145	437	3,248
209	Miscellaneous foods.....	20	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2099	Food preparations, n.e.c.....	14	3	189	655	134	230	302	1,475	3,089	103	138	597
22	Textile mill products.....	6	5	246	638	215	431	472	856	( <sup>2</sup> )	7	517	1,241
23	Apparel and related prod- ucts.....	36	15	1,508	3,141	1,354	2,545	2,482	4,543	( <sup>2</sup> )	48	1,179	3,433
233	Women's and misses' outerwear..	11	7	633	1,285	575	1,038	1,034	2,471	( <sup>2</sup> )	28	(D)	(D)
2337	Women's suits, coats and skirts	4	3	197	420	177	329	311	795	1,225	(D)	(NA)	(NA)
239	Fabricated textiles, n.e.c....	13	1	112	256	86	153	179	513	( <sup>2</sup> )	14	(D)	(D)
24	Lumber and wood products...	86	7	596	1,834	519	1,007	1,461	2,663	( <sup>2</sup> )	223	( <sup>3</sup> )	( <sup>3</sup> )
242	Lumber and basic products....	55	3	363	944	323	602	787	1,504	( <sup>2</sup> )	326	(D)	(D)
243	Millwork and related products	22	4	191	775	159	319	576	978	2,196	26	275	1,125
2431	Millwork plants.....	22	4	191	775	159	319	576	978	2,196	26	275	1,125
25	Furniture and fixtures.....	39	5	363	1,645	366	812	1,218	2,515	( <sup>2</sup> )	69	376	1,392
251	Household furniture.....	23	4	237	1,127	269	610	868	1,853	( <sup>2</sup> )	56	275	891
2512	Upholstered household furniture	10	3	153	870	203	477	689	1,384	2,823	16	162	612
26	Pulp, paper and products...	3	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
27	Printing and publishing....	122	14	1,754	6,775	1,162	2,137	4,519	13,354	( <sup>2</sup> )	491	1,808	9,342
2711	Newspapers.....	39	4	920	3,725	533	970	2,356	8,347	11,997	116	1,166	6,331
2751	Commercial printing.....	47	6	499	1,806	400	753	1,406	2,782	4,483	289	327	1,539
2761	Lithographing.....	11	2	143	568	110	195	369	812	1,433	50	113	566
28	Chemicals and products.....	37	14	1,131	4,756	861	1,718	3,363	12,343	( <sup>2</sup> )	(D)	642	5,112
281	Inorganic chemicals.....	3	3	281	1,290	196	407	864	5,149	( <sup>2</sup> )	585	96	(D)
282	Organic chemicals.....	3	3	242	1,079	210	401	895	3,075	( <sup>2</sup> )	64	220	1,782
289	Chemical products, n.e.c.....	15	4	287	1,129	221	456	797	2,087	( <sup>2</sup> )	208	228	1,458
29	Petroleum and coal products	16	9	1,901	9,249	1,423	2,819	6,608	39,880	( <sup>2</sup> )	7,836	1,427	12,222
2911	Petroleum refining.....	9	5	1,055	5,303	760	1,508	3,700	26,502	112,803	3,295	648	(D)
30	Rubber products.....	2	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...	...
31	Leather and leather goods..	2	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
32	Stone, clay and glass prod- ucts.....	54	20	1,627	6,430	1,315	2,721	4,902	21,000	( <sup>2</sup> )	848	1,092	5,627
325	Structural clay products.....	4	4	312	1,164	267	538	857	1,850	2,657	92	281	1,147
3251	Brick and hollow tile.....	4	4	312	1,164	267	538	857	1,850	2,657	92	202	(D)
327	Concrete and plaster products	32	10	753	2,894	571	1,219	2,068	6,925	( <sup>2</sup> )	341	496	2,013
3271	Concrete products.....	26	6	401	1,539	273	518	930	2,440	3,717	235	324	1,391
329	Nonmetallic mineral products, n.e.c.....	11	4	287	1,228	238	487	1,049	7,804	( <sup>2</sup> )	(D)	29	(D)
3295	Minerals; ground or treated...	6	2	204	934	167	346	810	6,519	8,921	(D)	29	(D)
33	Primary metal industries...	24	15	8,057	37,339	6,465	12,538	28,150	93,562	( <sup>2</sup> )	6,182	6,544	34,099
332	Iron and steel foundries.....	11	5	746	3,126	620	1,197	2,464	6,049	( <sup>2</sup> )	149	790	3,452
333	Primary nonferrous metals....	6	6	2,860	12,404	2,374	4,520	9,611	56,134	( <sup>2</sup> )	594	1,132	(D)

See footnotes at end of table.

## MANUFACTURES—AREA STATISTICS

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manufacture	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
34	Fabricated metal products..	69	25	2,072	8,996	1,500	3,012	6,020	16,828	( <sup>2</sup> )	1,010	871	4,212
344	Structural metal products....	52	19	1,718	7,666	1,211	2,489	5,103	15,263	( <sup>2</sup> )	793	477	2,356
3441	Structural and ornamental work.	25	8	606	2,560	422	873	1,700	4,671	10,246	168	322	1,610
3443	Boiler shop products.....	7	6	824	3,913	598	1,248	2,687	8,525	18,706	580	(D)	(D)
3444	Sheet-metal work.....	16	4	228	974	155	300	607	1,817	3,554	26	155	746
35	Machinery, except electrical.....	42	7	1,388	6,298	862	1,838	3,042	10,002	( <sup>2</sup> )	599	717	3,215
353	Construction and mining machinery.....	7	4	1,042	5,028	587	1,314	2,113	7,674	( <sup>2</sup> )	(D)	(D)	(D)
355	Special-industry machinery, n.e.c.....	5	1	101	468	68	128	258	733	( <sup>2</sup> )	6	(D)	(D)
359	Miscellaneous machinery parts	17	1	105	388	90	173	339	734	( <sup>2</sup> )	33	(D)	(D)
36	Electrical machinery.....	8	2	200	784	169	319	610	1,714	( <sup>2</sup> )	27	8	21
37	Transportation equipment...	4	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	89	(D)
38	Instruments and related products.....	7	...	24	54	19	33	41	113	( <sup>2</sup> )	6	27	94
39	Miscellaneous manufactures <sup>4</sup>	37	6	422	1,526	352	703	1,141	3,187	( <sup>2</sup> )	159	348	1,742
394	Toys and sporting goods.....	5	...	23	64	20	39	51	145	( <sup>2</sup> )	6	(D)	(D)
398	} Miscellaneous manufactures <sup>4</sup> ..	23	3	226	877	177	338	603	1,688	( <sup>2</sup> )	79	244	1,376
399													

NOTE: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industries (4-digit) and industry groups (3-digit) are not shown. Industries and industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "all industries" line.<sup>2</sup>The total value of shipments figures for industry groups and a few individual industries have not been published due to the extensive and unmeasurable duplication arising from shipments from one establishment to another in the same industry classification. (See Introduction.)<sup>3</sup>Comparable data are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude establishments in S.I.C. Industry 2411, Logging Camps and Contractors, which are included in the scope of the 1954 Census; the 1947 Census also excludes plants processing and distributing fluid milk which in 1954 were classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	All industries except subgroups 202 and 2411, total.....	28,221	267,237	23,664	122,730
20	Food and kindred products except subgroup 202, Dairy products.....	6,413	41,010	7,197	37,428
24	Lumber and wood products except Industry 2411, Logging camps and contractors.....	580	2,600	647	(D)

<sup>4</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUPS: 1954 AND 1947  
(This State contained no standard metropolitan area with 40,000 or more manufacturing employees in 1954 or 1947)

Table 6.—GENERAL STATISTICS FOR PRINCIPAL INDUSTRIAL COUNTIES (THOSE WITH 20,000 OR MORE MANUFACTURING EMPLOYEES), BY MAJOR INDUSTRY GROUPS: 1954 AND 1947

(This State contained no county with 20,000 or more manufacturing employees in 1954 and 1947)



20 Food and kindred products	26 Pulp, paper and products	32 Stone, clay, and glass products	38 Instruments and related products
21 Tobacco manufactures	27 Printing and publishing	33 Primary metal industries	39 Miscellaneous manufactures (Includes Group 19 Ordnance and accessories)
22 Textile mill products	28 Chemicals and products	34 Fabricated metal products	
23 Apparel and related products	29 Petroleum and coal products	35 Machinery, except electrical	
24 Lumber and wood products	30 Rubber products	36 Electrical machinery	
25 Furniture and fixtures	31 Leather and leather goods	37 Transportation equipment	

(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Utah, total.....	852	258	...	6	36	86	39	3	122	37	16	2	2	54	24	69	42	8	4	7	37
1 to 4 employees.....	350	81	...	...	16	50	23	...	61	14	4	...	1	24	2	25	24	3	2	5	15
5 to 9 employees.....	164	52	...	1	3	19	8	...	31	4	...	1	...	7	3	9	10	2	1	2	11
10 to 19 employees.....	104	40	...	...	2	10	3	1	16	5	3	...	...	3	4	10	1	1	...	...	5
20 to 49 employees.....	106	39	...	3	2	7	4	1	9	5	...	...	1	10	3	16	2	1	...	...	3
50 to 99 employees.....	68	30	...	1	6	...	1	1	2	6	4	...	...	4	3	4	2	...	1	...	3
100 to 249 employees.....	43	14	...	1	7	...	...	...	2	3	3	...	...	6	2	3	1	1	...	...	...
250 to 499 employees.....	9	2	...	...	...	...	...	...	...	...	1	...	...	...	3	2	1	...	...	...	...
500 to 999 employees.....	6	...	...	...	...	...	...	...	1	...	2	...	...	...	2	...	1	...	...	...	...
1,000 to 2,499 employees.....	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
2,500 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Beaver:																					
1 to 19 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Box Elder:																					
1 to 19 employees.....	16	7	...	...	...	1	1	...	2	1	...	...	...	2	...	1	...	...	...	...	1
20 to 99 employees.....	3	2	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Cache:																					
1 to 19 employees.....	25	14	...	...	1	1	2	...	4	...	...	...	...	1	...	...	1	...	...	1	...
20 to 99 employees.....	9	5	...	...	2	...	...	...	1	...	...	...	...	...	...	1	...	...	...	...	...
100 employees and over.....	2	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Carbon:																					
1 to 19 employees.....	11	6	...	...	...	1	...	...	1	2	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...
Daggett:																					
1 to 19 employees.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Davis:																					
1 to 19 employees.....	20	10	...	...	1	...	1	...	3	...	...	...	...	...	2	...	2	...	1	...	...
20 to 99 employees.....	9	6	...	...	...	...	...	...	...	1	2	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	3	2	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...
Duchesne:																					
1 to 19 employees.....	10	2	...	...	...	5	...	...	1	...	...	...	...	1	...	1	...	...	...	...	...
Emery:																					
1 to 19 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Garfield:																					
1 to 19 employees.....	11	1	...	...	...	10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Grand:																					
1 to 19 employees.....	2	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...
Iron:																					
1 to 19 employees.....	8	3	...	...	...	3	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...
Juab:																					
1 to 19 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...
Kane:																					
1 to 19 employees.....	5	...	...	...	...	3	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...
Millard:																					
1 to 19 employees.....	5	2	...	...	...	...	1	...	1	...	...	...	...	...	...	1	...	...	...	...	...
Morgan:																					
1 to 19 employees.....	2	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Rich:																					
1 to 19 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Salt Lake:																					
1 to 19 employees.....	319	64	...	...	17	19	23	1	61	16	5	1	...	15	6	30	24	6	2	6	23
20 to 99 employees.....	94	32	...	1	4	4	5	2	9	6	1	...	...	6	3	14	3	...	...	...	4
100 employees and over.....	33	6	...	1	4	...	...	...	2	3	2	...	...	3	4	4	3	1	...	...	...
San Juan:																					
1 to 19 employees.....	2	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sanpete:																					
1 to 19 employees.....	13	4	...	...	1	4	...	...	3	...	...	...	...	...	...	...	1	...	...	...	...
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sevier:																					
1 to 19 employees.....	12	6	...	...	...	2	...	...	1	...	...	...	...	1	...	1	1	...	...	...	...
20 to 99 employees.....	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...
Summit:																					
1 to 19 employees.....	10	1	...	...	...	8	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tooele:																					
1 to 19 employees.....	3	...	...	...	...	...	...	...	1	1	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	4	...	...	...	...	...	...	...	...	2	...	...	...	1	1	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...
Uintah:																					
1 to 19 employees.....	11	5	...	...	...	3	...	...	1	...	1	...	1	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...



## MANUFACTURES—AREA STATISTICS

Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954--Continued  
 (Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establish- ments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Utah:																					
1 to 19 employees.....	58	18	...	...	...	5	3	...	12	1	1	...	...	5	1	6	2	...	...	...	4
20 to 99 employees.....	20	6	...	...	1	...	...	...	1	2	...	...	...	4	2	4	...	...	...	...	...
100 employees and over.....	6	...	...	...	1	...	...	...	...	...	2	...	...	...	3	...	...	...	...	...	...
Wasatch:																					
1 to 19 employees.....	5	...	...	...	...	3	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	3	1	...	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Washington:																					
1 to 19 employees.....	8	3	...	...	...	1	...	...	1	...	...	...	...	1	...	...	1	...	...	...	1
Wayne:																					
1 to 19 employees.....	2	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Weber:																					
1 to 19 employees.....	54	23	...	1	1	5	3	...	8	1	...	...	...	4	...	4	2	...	...	...	2
20 to 99 employees.....	23	12	...	2	1	...	...	...	...	...	...	...	...	2	...	1	1	1	1	...	2
100 employees and over.....	8	5	...	...	1	...	...	...	1	...	...	...	...	...	...	1	...	...	...	...	...

# VERMONT (14 COUNTIES)



## LEGEND

● PLACES OF 25,000 TO 100,000 (1950)

★ PLACES OF 100,000 AND OVER (1950) - *NONE*

 STANDARD METROPOLITAN AREAS - *NONE*

## MANUFACTURES--AREA STATISTICS

Table 1.—MANUFACTURING EMPLOYMENT AT OPERATING ESTABLISHMENTS AND CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARIES FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS

(This table includes data for all manufacturing employees including those located in central administrative offices and auxiliaries. Tables 2-7 in this report include data for operating establishments only. For explanation of column captions see Introduction)

State, standard metropolitan areas, and year <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	(Number)	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
Vermont:						
1954.....	36,112	123,577	35,899	122,829	213	748
1953 <sup>2</sup> .....	38,811	143,327	38,811	143,327	(3)	(3)
1952 <sup>2</sup> .....	42,180	150,042	42,180	150,042	(3)	(3)
1951 <sup>2</sup> .....	42,343	141,867	42,343	141,867	(3)	(3)
1950 <sup>2</sup> .....	40,636	115,829	40,636	115,829	(3)	(3)
1949 <sup>2</sup> .....	34,063	87,342	33,478	85,618	585	1,724
Standard metropolitan areas: (None in this State)						

<sup>1</sup>Employment data for administrative offices and auxiliaries on a State basis are not available for the years prior to 1949.

<sup>2</sup>The employment figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period. The employment figures for administrative and auxiliary units were compiled chiefly from Bureau of Old-Age and Survivors Insurance records and are not strictly comparable with the figures for these units that were collected by the Bureau of the Census for the year 1954.

<sup>3</sup>The employment figures for administrative and auxiliary units are included with those for operating manufacturing establishments.



Table 2.—GENERAL STATISTICS FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Year	Establish- ments, number	All employees		Production workers		Value added by manufacture (\$1,000)
		Number	Payroll (\$1,000)	Number	Wages (\$1,000)	
	VERMONT					
	1,071	35,899	122,829	29,929	92,962	222,965
	(NA)	38,811	143,327	32,765	110,225	246,754
		42,180	150,042	35,677	118,958	264,155
		42,343	141,867	36,450	113,242	264,622
		40,636	115,829	35,395	93,882	205,938
	33,478	85,618	28,738	66,142	150,578	
	831	34,886	83,050	30,252	66,428	149,715
	659	24,084	27,422	20,498	19,940	49,741
	683	26,553	30,653	23,682	24,615	53,104
	660	21,368	22,612	18,870	17,598	39,524
	530	(NA)	(NA)	15,083	12,456	30,135
	702	(NA)	(NA)	18,726	20,923	43,186
	927	30,540	41,946	27,421	33,810	77,260
	880	(NA)	(NA)	26,241	32,305	64,073
	951			27,563	32,326	63,882
	1,021			30,783	34,695	69,176
	1,101			25,767	28,068	50,216
	1,702	36,709	41,069	33,194	33,758	71,788
	1,772	35,430	22,002	32,704	18,617	34,285
	1,958	36,467	20,075	33,788	17,272	33,487
	1,699	35,159	17,324	33,106	15,221	30,654
	1,938	29,874	13,037	28,179	11,427	25,130
	STANDARD METROPOLITAN AREAS (None in this State)					

NA Not available.

<sup>1</sup>The 1954 figures include data for establishments engaged in the processing and distribution of fluid milk, Industry Group 202, Dairy Products. These establishments were not included in the figures for the Annual Survey years 1949-1953 or earlier Census years. In addition, the 1954 Census and Annual Survey years include data for Logging camps and contractors, Industry 2411, which were not included within the scope of the 1947 Census. See footnotes to Table 4 for comparable 1954 and 1947 totals. There were also a number of changes in the definition of manufacturing industries during earlier Census years that affect the comparability of the historical series. Among the more important of these were: figures for 1935 and later years exclude data for "Railroad repair shops" and "Manufactured gas" which were included in 1899-1933 figures; the minimum size of establishment included for 1954 and 1947 was one employee, for 1939-1921 manufacturing establishments reporting value of shipments of \$5,000 or more were within scope whereas for 1919 and earlier years the cutoff was \$500. (This change in procedure has not appreciably affected the comparability of the historical data except for the figures on number of establishments.)

<sup>2</sup>The employment and payroll figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The Standard Errors Associated with these Estimates are published in the Annual Survey of Manufactures Volume for this period.

## MANUFACTURES--AREA STATISTICS

Table 3.--GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947

(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
Vermont, total.....	377,747	1,071	35,899	122,829	29,929	59,328	92,962	222,965	8,876	( <sup>1</sup> )	( <sup>1</sup> )
STANDARD METROPOLITAN AREAS (None in this State)											
COUNTIES											
Addison.....	19,442	43	1,146	3,035	1,000	1,970	2,457	6,756	137	880	2,676
Bennington.....	24,115	79	3,458	11,342	2,939	5,797	8,589	19,570	871	3,365	11,719
Caledonia.....	24,049	72	1,950	5,898	1,561	3,026	4,586	12,336	206	2,106	9,424
Chittenden.....	62,570	114	4,978	17,520	3,764	7,396	11,893	30,805	(D)	5,766	23,708
Essex.....	6,257	25	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1,184	(D)
Franklyn.....	29,894	56	1,782	6,388	1,434	3,007	4,597	14,229	931	2,110	11,496
Grand Isle.....	3,406	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...	...
Lamoille.....	11,388	38	594	1,373	550	1,147	1,213	1,963	75	629	2,571
Orange.....	17,027	53	(D)	(D)	(D)	(D)	(D)	(D)	(D)	569	(D)
Orleans.....	21,190	45	1,150	3,230	1,008	1,957	2,494	5,560	233	1,301	4,301
Rutland.....	45,905	138	4,538	13,113	3,855	7,406	10,147	22,669	793	3,364	13,773
Washington.....	42,870	174	3,232	10,876	2,711	5,247	8,583	16,338	553	3,261	14,801
Windham.....	28,749	129	3,321	10,222	2,917	5,915	8,245	20,558	741	3,278	16,887
Windsor.....	40,885	104	8,012	33,987	6,658	13,160	25,701	62,724	3,017	7,073	26,662
CITIES WITH 10,000 INHAB- ITANTS OR MORE											
Barre.....	10,922	90	1,586	6,088	1,310	2,524	4,817	8,914	341	1,615	8,192
Burlington.....	33,155	64	3,816	13,732	2,750	5,275	8,720	27,148	823	2,981	14,273
Rutland.....	17,659	39	1,890	5,299	1,628	2,870	4,126	12,331	212	2,266	9,527

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>The 1947 data are not strictly comparable with the figures shown for 1954 due to differences in coverage of loggers and fluid milk distributors. See discussion in Introduction and footnotes to Table 4.

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954										1947	
		Establish- ments, number		All employees		Production workers			Value added by manufacture	Value of shipments	Capital expendi- tures, new	All employees, number	Value added by manufacture
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
	All industries, total <sup>1</sup> ...	1,071	296	35,899	122,829	29,929	59,328	92,962	222,965	( <sup>2</sup> )	8,876	( <sup>3</sup> )	( <sup>3</sup> )
20	Food and kindred products..	161	35	2,745	9,525	1,959	3,983	6,060	25,738	( <sup>2</sup> )	1,016	( <sup>3</sup> )	( <sup>3</sup> )
201	Meat products.....	10	2	151	494	123	218	336	675	( <sup>2</sup> )	(D)	112	596
2022	Natural cheese.....	9	3	119	351	105	238	289	593	4,198	9	( <sup>3</sup> )	( <sup>3</sup> )
2026	Fluid milk.....	31	...	132	371	91	193	246	772	4,713	86	( <sup>3</sup> )	( <sup>3</sup> )
2027	Fluid milk and other products..	41	10	704	2,361	508	1,074	1,619	6,107	38,798	389	( <sup>3</sup> )	( <sup>3</sup> )
204	Grain mill products.....	10	7	695	3,060	522	1,128	1,973	11,592	( <sup>2</sup> )	315	659	6,474
205	Bakery products.....	18	6	433	1,492	283	557	890	2,616	5,205	77	445	1,925
2051	Bread and related products.....	18	6	433	1,492	283	557	890	2,616	5,205	77	445	1,925
208	Beverages.....	14	1	123	320	62	115	158	579	1,005	31	142	598
2081	Bottled soft drinks.....	14	1	123	320	62	115	158	579	1,005	31	142	598
209	Miscellaneous foods.....	12	2	136	459	87	176	210	1,295	( <sup>2</sup> )	47	298	1,701
22	Textile mill products.....	20	16	2,279	7,297	2,112	4,151	6,445	7,581	( <sup>2</sup> )	141	4,702	17,474
221	Woolen and worsted manufac- ture.....	12	11	1,675	5,506	1,549	3,089	4,908	5,924	( <sup>2</sup> )	97	3,478	12,661
23	Apparel and related prod- ucts.....	39	24	2,249	4,456	2,113	3,491	3,850	7,901	( <sup>2</sup> )	56	1,717	4,501
234	Women's undergarments.....	9	8	846	1,889	800	1,486	1,712	3,100	7,636	20	286	685
2341	Women's & children's underwear.	9	8	846	1,889	800	1,486	1,712	3,100	7,636	20	286	685
236	Children's outerwear.....	10	5	305	578	277	491	485	881	( <sup>2</sup> )	(D)	(D)	(D)
24	Lumber and wood products...	418	60	4,820	11,673	4,356	8,837	9,903	18,233	( <sup>2</sup> )	824	( <sup>3</sup> )	( <sup>3</sup> )
2411	Logging camps & contractors..	131	2	489	1,093	419	737	873	1,691	2,885	173	( <sup>3</sup> )	( <sup>3</sup> )
242	Lumber and basic products...	209	28	1,930	4,529	1,742	3,593	3,912	7,560	14,851	405	2,143	7,180
2421	Sawmills and planing mills.....	209	28	1,930	4,529	1,742	3,593	3,912	7,560	14,851	405	2,075	(D)
243	Millwork and related products	14	10	1,071	2,699	972	1,967	2,232	4,115	( <sup>2</sup> )	102	1,104	3,546
2432	Plywood plants.....	9	9	1,021	2,501	937	1,888	2,118	3,886	8,218	(D)	874	(D)
244	Wooden containers.....	7	4	323	745	307	634	663	998	( <sup>2</sup> )	12	(D)	(D)
249	Miscellaneous wood products..	57	16	1,006	2,606	913	1,905	2,220	3,869	7,223	132	(D)	(D)
2499	Wood products, n.e.c.....	57	16	1,006	2,606	913	1,905	2,220	3,869	7,223	132	(D)	(D)
25	Furniture and fixtures.....	29	12	1,358	4,430	1,183	2,593	3,347	6,012	( <sup>2</sup> )	450	1,765	5,134
251	Household furniture.....	25	10	1,180	3,883	1,017	2,203	2,872	5,307	( <sup>2</sup> )	427	1,326	4,583
2511	Wood furniture, not upholstered	18	10	1,155	3,808	995	2,161	2,809	5,221	8,853	(D)	(D)	(D)
26	Pulp, paper and products...	21	18	2,031	8,362	1,643	3,656	5,803	15,051	( <sup>2</sup> )	902	2,653	19,744
261	Pulp, paper and board.....	11	11	886	4,000	743	1,774	2,922	6,067	( <sup>2</sup> )	368	(D)	(D)
2641	Paper coating and glazing....	4	4	351	1,478	298	710	1,014	3,243	10,425	26	313	3,412
27	Printing and publishing....	80	15	1,335	4,660	978	1,772	3,017	7,739	( <sup>2</sup> )	546	1,057	3,803
2711	Newspapers.....	23	10	609	2,225	358	718	1,217	3,865	4,495	173	647	2,571
273	Books.....	5	1	132	426	123	242	402	594	( <sup>2</sup> )	9	(D)	(D)
2751	Commercial printing.....	36	2	320	1,004	266	526	798	1,509	2,286	116	252	772
2771	Greeting cards.....	5	1	136	555	123	228	491	994	2,854	150	...	...
28	Chemicals and products.....	13	3	231	787	189	399	547	2,726	( <sup>2</sup> )	65	341	2,777
29	Petroleum and coal products	1	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
30	Rubber products.....	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
31	Leather and leather goods..	9	6	536	1,421	497	1,029	1,327	2,372	( <sup>2</sup> )	56	463	1,168
32	Stone, clay and glass prod- ucts.....	152	46	4,034	13,889	3,375	6,645	10,861	20,190	( <sup>2</sup> )	901	2,606	12,613
3281	Cut-stone and stone products.	126	41	3,402	11,993	2,879	5,678	9,511	15,964	27,417	712	1,572	8,473
33	Primary metal industries...	12	6	578	2,020	501	928	1,602	2,818	( <sup>2</sup> )	62	641	2,042
332	Iron and steel foundries.....	8	5	482	1,581	425	753	1,269	1,994	2,746	18	620	1,944
3321	Gray-iron foundries.....	8	5	482	1,581	425	753	1,269	1,994	2,746	18	620	1,944
34	Fabricated metal products..	24	8	889	3,419	707	1,440	2,445	5,920	( <sup>2</sup> )	(D)	831	3,285
344	Structural metal products....	5	1	134	601	98	206	359	1,030	( <sup>2</sup> )	42	(D)	(D)
35	Machinery, except electri- cal.....	47	24	7,811	34,012	6,371	12,917	25,762	63,727	( <sup>2</sup> )	2,805	7,128	30,686
354	Metalworking machinery.....	14	9	5,622	26,902	4,595	9,644	20,327	51,175	( <sup>2</sup> )	2,569	(D)	(D)
3541	Machine tools.....	4	4	4,644	23,042	3,755	7,891	17,363	45,037	58,369	2,317	(D)	(D)
359	Miscellaneous machine parts..	11	3	168	494	136	273	376	850	( <sup>2</sup> )	23	(D)	(D)
36	Electrical machinery.....	5	4	826	2,380	710	1,379	1,891	5,167	( <sup>2</sup> )	57	(D)	(D)
37	Transportation equipment...	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	55	(D)
38	Instruments and related products.....	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

See footnotes at end of table.



## MANUFACTURES—AREA STATISTICS

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Ind. code	Industry	1964										1947	
		Establish- ments, number		All employees		Production workers			Value added by manufacture	Value of shipments	Capital expendi- tures, new	All employees, number	Value added by manufacture
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
39	Miscellaneous manufactures <sup>4</sup>	30	15	2,884	10,167	2,178	4,188	6,896	19,663	( <sup>2</sup> )	303	1,460	4,703
394	Toys and sporting goods.....	10	5	205	512	183	350	440	716	( <sup>2</sup> )	42	221	763
3949	Sporting and athletic goods....	5	3	124	337	112	239	291	430	716	28	180	721
3971	Plastics products, n.e.c.....	6	1	266	1,001	234	484	853	1,598	3,502	55	(D)	(D)
398 399	Miscellaneous manufactures <sup>4</sup> ..	9	5	2,031	7,637	1,431	2,737	4,865	16,179	( <sup>2</sup> )	149	(D)	(D)

NOTE: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industries (4-digit) and industry groups (3-digit) are not shown. Industries and industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "all industries" line.<sup>2</sup>The total value of shipments figures for industry groups and a few individual industries have not been published due to the extensive and unmeasurable duplication arising from shipments from one establishment to another in the same industry classification. (See Introduction.)<sup>3</sup>Comparable data are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude establishments in S.I.C. Industry 2411, Logging Camps and Contractors, which are included in the scope of the 1954 Census; the 1947 Census also excludes plants processing and distributing fluid milk which in 1954 were classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	All industries except subgroups 202 and 2411, total.....	34,365	212,536	34,504	146,595
20	Food and kindred products except subgroup 202, Dairy products.....	1,700	17,000	1,780	11,572
24	Lumber and wood products except Industry 2411, Logging camps and contractors.....	4,331	16,542	5,481	18,569

<sup>4</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUPS: 1954 AND 1947  
(This State contained no standard metropolitan area with 40,000 or more manufacturing employees in 1954 or 1947)

Table 6.—GENERAL STATISTICS FOR PRINCIPAL INDUSTRIAL COUNTIES (THOSE WITH 20,000 OR MORE MANUFACTURING EMPLOYEES), BY MAJOR INDUSTRY GROUPS: 1954 AND 1947

(This State contained no county with 20,000 or more manufacturing employees in 1954 and 1947)

Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954

20 Food and kindred products	26 Pulp, paper and products	32 Stone, clay, and glass products	38 Instruments and related products
21 Tobacco manufactures	27 Printing and publishing	33 Primary metal industries	39 Miscellaneous manufactures (Includes Group 19)
22 Textile mill products	28 Chemicals and products	34 Fabricated metal products	Ordnance and accessories)
23 Apparel and related products	29 Petroleum and coal products	35 Machinery, except electrical	
24 Lumber and wood products	30 Rubber products	36 Electrical machinery	
25 Furniture and fixtures	31 Leather and leather goods	37 Transportation equipment	

(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Vermont, total.....	1,071	161	...	20	39	418	29	21	80	13	1	4	9	152	12	24	47	5	3	3	30
1 to 4 employees.....	459	67	...	3	7	243	10	1	43	2	...	2	2	50	2	7	11	...	2	1	6
5 to 9 employees.....	171	37	...	...	4	70	2	...	11	4	...	1	1	26	2	4	6	1	...	...	2
10 to 19 employees.....	145	22	...	1	4	45	5	2	11	4	1	...	...	30	2	5	6	...	...	...	7
20 to 49 employees.....	150	20	...	4	11	40	2	7	7	2	...	...	1	34	1	3	6	2	1	...	9
50 to 99 employees.....	72	10	...	4	4	14	4	6	4	1	...	...	3	9	3	3	5	1	...	...	1
100 to 249 employees.....	55	5	...	6	8	5	6	3	4	...	...	...	2	1	2	1	6	...	...	2	4
250 to 499 employees.....	9	...	...	2	1	1	...	2	...	...	...	...	...	1	...	1	1	...	...	...	...
500 to 999 employees.....	5	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	3	1	...	...	...
1,000 to 2,499 employees.....	5	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	3	...	...	...	...
Addison:																					
1 to 19 employees.....	32	4	...	...	...	22	...	...	4	...	...	...	...	1	...	...	...	...	...	...	1
20 to 99 employees.....	7	1	...	...	...	3	1	...	...	1	...	...	...	...	...	...	...	...	...	...	1
100 employees and over.....	4	...	...	...	2	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
Bennington:																					
1 to 19 employees.....	48	4	...	1	1	25	4	...	5	1	...	...	...	3	...	1	1	...	...	...	2
20 to 99 employees.....	21	1	...	3	4	3	1	1	1	...	...	...	...	...	1	...	1	1	...	...	4
100 employees and over.....	10	...	...	...	1	...	2	1	1	...	...	...	1	...	...	1	1	1	...	...	1
California:																					
1 to 19 employees.....	55	12	...	...	2	24	2	...	3	1	...	...	...	8	1	1	1	...	...	...	...
20 to 99 employees.....	13	3	...	...	1	3	...	2	1	...	...	...	1	...	...	1	...	...	...	...	1
100 employees and over.....	4	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...
Chittenden:																					
1 to 19 employees.....	77	26	...	...	2	18	3	1	8	3	1	1	...	6	1	1	3	...	1	...	2
20 to 99 employees.....	29	11	...	1	3	4	...	...	2	...	...	...	...	2	...	3	2	...	1	...	...
100 employees and over.....	8	...	...	1	2	...	1	...	1	...	...	...	...	...	...	...	1	...	...	...	2
Essex:																					
1 to 19 employees.....	20	2	...	...	...	16	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	2	...	...	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	3	...	...	...	...	...	1	2	...	...	...	...	...	...	...	...	...	...	...	...	...
Franklin:																					
1 to 19 employees.....	41	10	...	1	2	15	1	...	5	1	...	...	...	3	1	...	2	...	...	...	...
20 to 99 employees.....	8	4	...	...	1	1	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	7	2	...	...	...	1	1	2	...	...	...	...	...	...	...	1	...	...	...	...	...
Grand Isle:																					
1 to 19 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Lamoille:																					
1 to 19 employees.....	28	5	...	...	...	19	...	...	1	...	...	...	...	1	...	...	2	...	...	...	...
20 to 99 employees.....	9	...	...	...	1	7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
100 employees and over.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Orange:																					
1 to 19 employees.....	43	5	...	...	...	27	1	...	3	1	...	...	1	2	1	1	1	...	...	...	...
20 to 99 employees.....	8	1	...	...	...	4	1	1	...	...	...	...	...	...	...	...	...	...	...	...	1
100 employees and over.....	2	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
Orleans:																					
1 to 19 employees.....	33	3	...	...	2	21	1	...	2	1	...	...	...	2	...	1	...	...	...	...	...
20 to 99 employees.....	9	3	...	...	2	2	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	3	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	1	...	...	...	...
Rutland:																					
1 to 19 employees.....	106	24	...	...	3	36	1	1	11	1	...	...	2	18	...	3	1	...	...	...	5
20 to 99 employees.....	25	1	...	...	3	6	...	...	...	1	...	...	2	6	2	1	1	1	...	...	1
100 employees and over.....	7	...	...	...	2	...	...	...	1	...	...	...	...	1	...	...	2	...	...	1	...
Washington:																					
1 to 19 employees.....	117	16	...	...	1	27	...	...	8	...	...	1	...	57	...	1	3	...	...	...	3
20 to 99 employees.....	55	3	...	3	...	7	...	...	1	...	...	...	...	35	1	1	3	...	...	...	1
100 employees and over.....	2	...	...	1	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Winham:																					
1 to 19 employees.....	96	9	...	...	1	59	3	1	6	1	...	...	...	2	2	4	5	1	...	...	2
20 to 99 employees.....	25	1	...	...	...	9	2	7	3	1	...	...	1	...	...	...	...	1	...	...	...
100 employees and over.....	8	1	...	1	...	1	...	...	1	...	...	...	1	1	...	...	...	...	...	...	2
Windsor:																					
1 to 19 employees.....	78	5	...	2	1	49	1	...	7	...	...	1	...	3	...	3	4	...	1	1	...
20 to 99 employees.....	11	1	...	1	...	4	...	...	1	...	...	...	...	...	...	...	4	...	...	...	...
100 employees and over.....	15	1	...	5	...	1	...	...	...	...	...	1	...	...	2	...	5	...	...	...	...





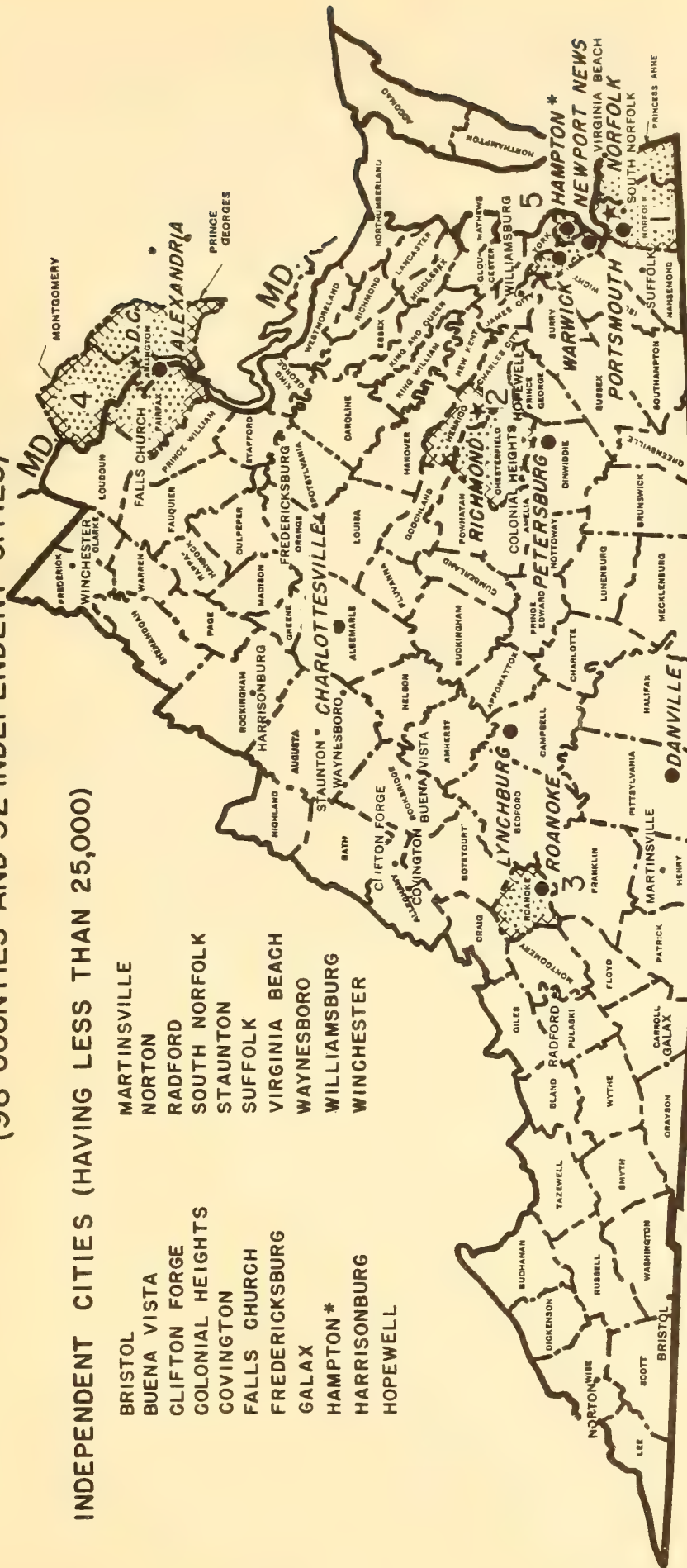
# VIRGINIA

(98 COUNTIES AND 32 INDEPENDENT CITIES)

INDEPENDENT CITIES (HAVING LESS THAN 25,000)

BRISTOL  
BUENA VISTA  
CLIFTON FORGE  
COLONIAL HEIGHTS  
COVINGTON  
FALLS CHURCH  
FREDERICKSBURG  
GALAX  
HAMPTON\*  
HARRISONBURG  
HOPEWELL

MARTINSVILLE  
NORTON  
RADFORD  
SOUTH NORFOLK  
STAUNTON  
SUFFOLK  
VIRGINIA BEACH  
WAYNESBORO  
WILLIAMSBURG  
WINCHESTER



## STANDARD METROPOLITAN AREAS

CODE	
1	NORFOLK-PORTSMOUTH
2	RICHMOND
3	ROANOKE
4	WASHINGTON, D. C.
5	HAMPTON-NEWPORT NEWS - WARWICK

## LEGEND

- PLACES HAVING LESS THAN 25,000
- PLACES OF 25,000 TO 100,000
- ★ PLACES OF 100,000 AND OVER
- STANDARD METROPOLITAN AREAS

\* HAMPTON OFFICIALLY REDEFINED ON JULY 1, 1952 TO CONSIST OF FORMER INDEPENDENT CITY OF HAMPTON AND FORMER ELIZABETH CITY COUNTY.

## MANUFACTURES—AREA STATISTICS

Table 1.—MANUFACTURING EMPLOYMENT AT OPERATING ESTABLISHMENTS AND CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARIES FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS

(This table includes data for all manufacturing employees including those located in central administrative offices and auxiliaries. Tables 2-7 in this report include data for operating establishments only. For explanation of column captions see Introduction)

State, standard metropolitan areas, and year <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	(Number)	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
Virginia:						
1954.....	242,864	777,020	239,733	760,454	3,131	16,566
1953 <sup>2</sup> .....	256,057	791,625	253,796	781,301	2,261	10,324
1952 <sup>2</sup> .....	240,998	711,337	238,446	701,957	<sup>3</sup> 2,552	<sup>3</sup> 9,380
1951 <sup>2</sup> .....	231,750	643,333	229,198	633,953	2,552	9,380
1950 <sup>2</sup> .....	225,133	573,968	222,103	563,404	3,030	10,564
1949 <sup>2</sup> .....	214,037	514,428	212,516	509,168	1,521	5,260
1954						
Standard metropolitan areas:						
Hampton-Newport News-Warwick <sup>4</sup> .....	18,275	79,725	18,164	79,393	111	332
Norfolk-Portsmouth <sup>5</sup> .....	15,723	55,306	15,464	54,156	259	1,150
Richmond <sup>6</sup> .....	37,546	136,017	36,250	128,569	1,296	7,448
Roanoke <sup>7</sup> .....	12,759	42,746	12,732	42,593	27	453
Washington, D. C. <sup>8</sup> .....	31,732	138,202	30,373	131,088	1,359	7,114

<sup>1</sup>Employment data for administrative offices and auxiliaries on a State basis are not available for the years prior to 1949. Similar data for standard metropolitan areas are available only for 1954.<sup>2</sup>The employment figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period. The employment figures for administrative and auxiliary units were compiled chiefly from Bureau of Old-Age and Survivors Insurance records and are not strictly comparable with the figures for these units that were collected by the Bureau of the Census for the year 1954.<sup>3</sup>The 1951 data are shown for 1952 since auxiliary and administrative unit data were not collected in 1952.<sup>4</sup>The Hampton-Newport News-Warwick Standard Metropolitan Area consists of Hampton, Newport News, and Warwick Cities, Virginia.<sup>5</sup>The Norfolk-Portsmouth Standard Metropolitan Area consists of Norfolk and Princess Anne Counties and Norfolk, South Norfolk, Portsmouth, and Virginia Beach Cities, Virginia.<sup>6</sup>The Richmond Standard Metropolitan Area consists of Chesterfield and Henrico Counties and Richmond City, Virginia.<sup>7</sup>The Roanoke Standard Metropolitan Area consists of Roanoke City and Roanoke County, Virginia.<sup>8</sup>The Washington (D. C.) Standard Metropolitan Area consists of the District of Columbia; Montgomery and Prince Georges Counties in Maryland; Arlington and Fairfax Counties, and Alexandria and Falls Church cities, Virginia.

Table 2.—GENERAL STATISTICS FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Year	Establish- ments, number	All employees		Production workers		Value added by manufacture (\$1,000)
		Number	Payroll (\$1,000)	Number	Wages (\$1,000)	
		VIRGINIA				
1954 <sup>1</sup> .....	4,398	239,733	760,454	202,654	576,844	1,629,041
1953 <sup>2</sup> .....	(NA)	253,796	781,301	217,783	616,717	1,629,938
1952 <sup>2</sup> .....	(NA)	238,446	701,957	204,207	550,390	1,467,005
1951 <sup>2</sup> .....	(NA)	229,198	633,953	197,146	494,011	1,447,535
1950 <sup>2</sup> .....	(NA)	222,103	563,404	192,484	445,475	1,326,495
1949 <sup>2</sup> .....	(NA)	212,516	509,168	185,250	399,410	1,085,249
1947.....	3,643	216,507	483,575	189,942	384,293	1,050,623
1939.....	2,494	150,202	150,359	132,089	113,848	376,259
1937.....	2,384	144,434	138,162	132,643	112,774	335,848
1935.....	2,241	123,892	107,636	113,654	86,377	247,029
1933.....	1,864	(NA)	(NA)	100,673	70,444	206,556
1931.....	2,275	(NA)	(NA)	103,045	90,559	352,683
1929.....	3,287	131,586	147,352	120,273	118,089	380,086
1927.....	2,432	(NA)	(NA)	114,918	110,378	325,181
1925.....	2,553	(NA)	(NA)	112,135	105,887	274,800
1923.....	2,743	(NA)	(NA)	111,578	104,680	243,661
1921.....	2,570	(NA)	(NA)	88,555	85,063	185,321
1919.....	5,487	132,842	145,423	118,976	119,583	271,131
1914.....	5,505	111,979	56,114	102,815	44,869	108,711
1909.....	5,685	114,227	47,256	105,676	38,155	94,211
1904.....	3,187	85,255	32,818	80,285	27,943	65,207
1899.....	3,186	70,051	23,903	66,223	20,274	49,285
		STANDARD METROPOLITAN AREAS (None with 40,000 or more manufacturing employees in this State)				

NA Not available.

<sup>1</sup>The 1954 figures include data for establishments engaged in the processing and distribution of fluid milk, Industry Group 202, Dairy Products. These establishments were not included in the figures for the Annual Survey years 1949-1953 or earlier Census years. In addition, the 1954 Census and Annual Survey years include data for Logging camps and contractors, Industry 2411, which were not included within the scope of the 1947 Census. See footnotes to Table 4 for comparable 1954 and 1947 totals. There were also a number of changes in the definition of manufacturing industries during earlier Census years that affect the comparability of the historical series. Among the more important of these were: figures for 1935 and later years exclude data for "Railroad repair shops" and "Manufactured gas" which were included in 1899-1933 figures; the minimum size of establishment included for 1954 and 1947 was one employee, for 1939-1921 manufacturing establishments reporting value of shipments of \$5,000 or more were within scope whereas for 1919 and earlier years the cutoff was \$500. (This change in procedure has not appreciably affected the comparability of the historical data except for the figures on number of establishments.)

<sup>2</sup>The employment and payroll figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these establishments are published in the Annual Survey of Manufactures volume for this period.



## MANUFACTURES—AREA STATISTICS

Table 3.--GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947

(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
Virginia total.....	3,318,680	4,398	239,733	760,454	202,654	394,735	576,844	1,629,041	109,887	<sup>1</sup> 216,507	<sup>1</sup> 1,050,623
STANDARD METROPOLITAN AREAS											
Hampton-Newport News-Warwick area.....	143,227	116	18,164	79,393	16,609	32,987	71,436	110,314	3,028	13,211	50,613
Norfolk-Portsmouth area.....	446,200	334	15,464	54,156	12,121	24,504	36,759	114,166	4,752	16,793	86,445
Richmond area.....	328,050	475	36,250	128,569	28,458	54,878	87,076	343,916	20,826	35,291	249,015
Roanoke area.....	133,407	149	12,732	42,593	10,236	20,924	30,671	62,923	5,677	11,287	49,592
Washington (D.C.) area, total.....	1,464,089	859	30,373	131,088	18,534	35,954	67,577	223,472	10,623	22,473	118,776
Portion in Virginia....	303,328	127	2,574	10,368	1,715	3,590	5,824	17,787	1,088	1,628	6,868
Portion in District of Columbia.....	802,178	484	20,399	90,083	11,821	22,390	44,743	157,213	6,536	17,815	99,067
Portion in Maryland....	358,583	248	7,400	30,637	4,998	9,974	17,010	48,472	2,999	3,030	12,841
COUNTIES											
Accomack.....	33,832	53	1,190	2,055	1,101	1,972	1,745	3,686	159	622	1,310
Albemarle.....	26,662	41	1,404	3,868	1,185	2,263	2,831	11,624	569	1,357	7,925
Alleghany.....	23,139	9	279	789	232	434	456	1,265	51	( <sup>2</sup> )	( <sup>2</sup> )
Amelia.....	7,908	14	94	135	91	120	134	271	13	263	513
Amherst.....	20,332	30	299	607	270	475	534	1,180	40	45	147
Appomattox.....	8,764	26	674	1,201	646	1,167	1,099	1,554	87	293	673
Arlington.....	135,449	43	839	3,340	596	1,187	1,909	5,939	376	569	1,983
Augusta.....	34,154	37	1,556	4,112	1,346	2,591	3,375	8,468	4,850	( <sup>3</sup> )	( <sup>3</sup> )
Bath.....	6,296	7	41	47	37	50	42	65	7	37	109
Bedford.....	29,627	74	1,941	5,659	1,701	3,210	4,444	12,580	895	1,662	6,981
Bland.....	6,436	12	235	498	223	447	423	600	10	206	523
Botetourt.....	15,766	26	696	1,869	606	1,183	1,467	6,335	466	319	911
Brunswick.....	20,136	35	597	1,054	544	983	871	2,216	127	726	1,522
Buchanan.....	35,748	26	199	330	177	304	268	470	30	299	664
Buckingham.....	12,288	32	316	529	280	470	450	827	29	273	659
Campbell.....	28,877	63	3,347	10,808	2,846	6,199	7,954	17,498	948	3,301	15,999
Caroline.....	12,471	39	461	886	425	679	734	1,598	78	618	1,259
Carroll.....	26,695	43	386	899	367	640	835	1,163	26	( <sup>4</sup> )	( <sup>4</sup> )
Charles City.....	4,676	7	50	79	47	75	75	126	3	199	363
Charlotte.....	14,057	35	1,020	2,104	955	1,695	1,837	3,844	89	315	635
Chesterfield.....	40,400	42	4,738	(D)	3,522	(D)	(D)	(D)	(D)	( <sup>5</sup> )	( <sup>5</sup> )
Clarke.....	7,074	12	453	884	435	812	807	1,120	36	143	481
Craig.....	3,452	4	100	(D)	94	(D)	(D)	(D)	(D)	25	54
Culpeper.....	13,242	26	620	1,548	547	1,057	1,227	3,235	46	600	2,289
Cumberland.....	7,252	9	105	181	100	159	172	197	...	70	105
Dickenson.....	23,393	10	48	78	44	78	63	99	7	13	46
Dinwiddie.....	18,839	28	318	490	302	511	446	1,232	77	516	928
Essex.....	6,530	35	275	485	259	396	404	821	154	343	866
Fairfax.....	98,557	28	210	668	182	457	514	2,011	267	( <sup>6</sup> )	( <sup>6</sup> )
Fauquier.....	21,248	23	205	504	161	323	335	698	54	146	494
Floyd.....	11,351	33	269	376	255	418	355	554	43	328	579
Fluvanna.....	7,121	29	256	404	246	373	376	669	33	167	359
Franklin.....	24,560	61	1,364	3,478	1,224	2,330	2,564	5,792	79	1,167	5,832
Frederick.....	17,537	24	1,313	3,968	1,034	2,011	2,720	8,451	486	1,206	3,962
Giles.....	18,956	20	2,533	9,263	1,979	3,780	6,705	33,804	1,147	4,522	(D)
Gloucester.....	10,343	28	358	746	324	599	654	1,147	71	275	668
Goochland.....	8,934	18	173	273	167	282	256	414	37	262	407
Grayson.....	21,379	21	1,533	3,612	1,408	2,649	3,196	4,398	103	( <sup>4</sup> )	( <sup>4</sup> )
Greene.....	4,745	8	100	138	98	146	134	160	(D)	11	17
Greensville.....	16,319	38	1,555	4,200	1,367	2,824	3,370	9,930	479	1,021	6,347
Halifax.....	41,442	39	2,652	6,213	2,394	4,649	5,088	10,710	414	2,673	12,789
Hanover.....	21,985	60	828	1,461	767	1,270	1,247	2,413	124	751	1,923
Henrico.....	57,340	52	1,137	3,415	938	1,808	2,435	5,929	552	1,849	9,492
Henry.....	31,219	81	8,315	27,229	7,252	14,357	21,146	138,070	1,778	7,167	47,187
Highland.....	4,069	15	115	152	108	162	142	287	35	113	268
Isle of Wight.....	14,906	29	2,569	8,962	2,157	4,458	6,482	21,376	2,196	1,702	13,663
James City.....	6,317	16	149	311	136	243	243	504	38	196	504
King and Queen.....	6,299	30	252	372	239	340	322	680	36	300	669
King George.....	6,710	13	152	275	141	209	243	577	37	100	(D)
King William.....	7,589	23	879	(D)	773	(D)	(D)	(D)	(D)	751	(D)
Lancaster.....	8,640	42	644	1,095	571	958	883	2,118	348	(D)	(D)
Lee.....	36,106	10	27	33	22	31	27	54	21	79	181
Loudoun.....	21,147	16	153	(D)	123	(D)	(D)	(D)	(D)	157	(D)
Louisa.....	12,826	55	786	1,361	740	1,250	1,140	1,934	103	561	1,516
Lunenburg.....	14,116	31	848	1,515	767	1,345	1,267	1,904	251	500	1,219

Table 3.--GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947--Continued  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
Madison.....	8,273	19	220	385	207	379	355	710	29	163	285
Mathews.....	7,148	18	132	256	123	238	238	405	28	111	178
Mecklenburg.....	33,497	58	2,795	6,509	2,447	4,415	4,969	10,916	782	1,407	4,687
Middlesex.....	6,715	28	308	475	278	576	405	766	85	216	567
Montgomery.....	29,780	30	1,400	2,838	1,276	2,089	2,211	6,998	134	1,350	5,321
Nansemond.....	25,238	31	626	1,317	544	996	1,007	2,075	150	(*)	(*)
Nelson.....	14,042	13	409	(D)	313	(D)	(D)	(D)	(D)	583	(D)
New Kent.....	3,995	17	227	390	217	375	353	647	71	222	575
Norfolk.....	99,937	30	1,284	4,553	984	2,150	3,083	10,509	560	(*)	(*)
Northhampton.....	17,300	24	1,165	2,222	1,010	1,570	1,747	3,963	197	1,053	2,265
Norththumberland.....	10,012	34	461	952	431	664	854	1,701	139	675	2,159
Nottoway.....	15,479	30	573	1,223	537	1,019	1,068	2,024	159	456	1,031
Orange.....	12,755	30	2,139	6,351	1,570	3,253	3,664	10,591	308	1,268	3,619
Page.....	15,152	26	1,133	2,917	1,039	1,921	2,427	4,602	232	915	4,040
Patrick.....	15,642	72	982	1,898	926	1,633	1,690	3,315	1,244	438	906
Pittsylvania.....	66,096	62	537	1,111	457	858	824	1,638	260	(*)	(*)
Powhatan.....	5,556	12	114	177	107	157	147	265	15	248	457
Prince Edward.....	15,398	14	606	1,379	538	987	1,076	1,908	133	733	1,535
Prince George.....	19,679	13	160	340	147	238	275	673	19	178	441
Prince William.....	22,612	17	225	641	180	342	462	1,344	35	157	621
Princess Anne.....	42,277	17	225	515	173	281	303	925	113	(?)	(?)
Pulaski.....	27,758	33	2,231	6,409	1,986	4,161	5,224	11,430	366	(*)	(*)
Rappahannock.....	6,112	5	27	36	25	38	34	73	5	27	84
Richmond.....	6,189	35	435	937	373	613	691	1,591	81	286	873
Roanoke.....	41,486	45	3,008	9,998	2,577	5,150	7,743	15,585	704	5,455	27,515
Rockbridge.....	23,359	28	2,621	(D)	2,333	(D)	(D)	(D)	(D)	1,987	13,216
Rockingham.....	35,079	55	2,443	7,163	2,096	4,276	5,604	33,144	568	2,637	8,474
Russell.....	26,818	10	39	58	35	50	53	154	17	23	45
Scott.....	27,640	14	250	815	216	407	618	890	2,321	160	253
Shenandoah.....	21,169	51	1,148	2,455	1,045	2,118	1,928	3,661	223	720	1,801
Smyth.....	30,187	32	3,551	11,592	3,083	6,051	9,242	30,187	763	3,196	11,054
Southampton.....	26,522	27	538	974	511	888	862	1,454	47	866	3,259
Spotsylvania.....	11,920	34	2,875	(D)	2,394	(D)	(D)	(D)	(D)	2,810	(D)
Stafford.....	11,902	24	173	259	161	279	232	458	36	157	320
Surry.....	6,220	9	132	190	104	163	148	270	(D)	243	459
Sussex.....	12,785	23	467	769	438	817	756	1,375	92	445	965
Tazewell.....	47,512	49	984	2,351	809	1,636	1,740	3,698	171	980	3,209
Warren.....	14,801	18	2,686	10,270	2,223	4,564	8,022	29,835	1,585	3,710	(D)
Washington.....	37,536	27	1,255	3,522	1,075	2,153	2,715	7,274	392	1,934	8,662
Westmoreland.....	10,148	35	322	602	277	478	448	1,345	242	524	922
Wise.....	56,336	30	424	1,007	363	710	747	1,475	58	(8)	(8)
Wythe.....	23,327	34	1,369	3,125	1,245	2,640	2,663	6,015	139	815	3,057
York.....	11,750	14	91	192	77	126	154	354	38	238	498
INDEPENDENT CITIES											
Alexandria.....	61,787	50	1,507	6,293	923	1,924	3,353	9,729	443	889	4,120
Bristol <sup>11</sup> .....	15,954	42	3,039	9,269	2,417	4,697	6,446	15,663	492	3,557	11,042
Buena Vista.....	5,214	7	418	1,293	385	833	1,120	1,599	155	438	(D)
Charlottesville.....	25,969	32	2,150	6,180	1,746	3,546	4,297	9,833	448	1,496	8,417
Clifton Forge.....	5,795	4	115	(D)	104	(D)	(D)	(D)	(D)	41	173
Colonial Heights.....	6,077	6	137	403	92	208	206	708	75	(5)	(5)
Covington.....	5,860	13	2,869	11,109	2,318	4,582	8,374	26,622	(D)	(2)	(2)
Danville.....	35,066	57	13,240	38,993	11,721	22,150	30,490	54,062	4,170	(*)	(*)
Falls Church.....	7,535	6	18	67	14	22	48	108	(D)	(6)	(6)
Fredericksburg.....	12,158	26	1,510	3,670	1,302	2,322	2,729	4,496	324	663	1,926
Galax.....	5,248	18	2,192	4,697	2,011	3,692	3,806	10,653	408	(4)	(NA) (4)
Hampton.....	60,994	49	1,224	3,103	1,048	1,953	2,334	5,395	679	(9)	(9)
Harrisonburg.....	10,810	30	1,613	3,865	1,378	2,927	2,915	8,514	415	834	2,498
Hopewell.....	10,219	14	4,417	18,682	3,346	7,026	13,297	52,932	(D)	3,962	27,670
Lynchburg.....	47,727	87	10,299	27,734	8,774	16,653	21,446	41,010	3,040	8,794	29,703
Martonsville.....	17,251	38	5,700	14,172	4,974	10,216	11,970	24,254	647	2,548	10,560
Newport News.....	42,358	44	16,328	74,488	15,052	30,028	67,665	101,730	2,252	12,081	47,037
Norfolk.....	213,513	210	10,683	39,328	8,290	16,811	26,408	81,006	3,102	10,403	54,539
Norton.....	4,315	6	119	320	93	141	205	402	(D)	(8)	(8)
Petersburg.....	35,054	58	6,013	16,754	5,451	10,684	14,061	50,471	1,779	5,340	19,182
Portsmouth.....	80,039	52	2,009	5,331	1,683	3,229	3,932	12,597	337	(*)	(*)
Radford.....	9,026	10	6,549	26,355	5,495	10,751	20,990	31,417	10,090	1,247	(D)
Richmond.....	230,310	381	30,375	102,915	23,998	46,383	71,193	285,599	15,719	28,126	204,385
Roanoke.....	91,921	104	9,724	32,595	7,659	15,774	22,928	47,338	4,973	5,832	22,077
South Norfolk.....	10,434	18	1,212	4,276	948	1,951	2,909	8,783	635	848	3,326

## MANUFACTURES--AREA STATISTICS

Table 3.--GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947--Continued  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
Staunton.....	19,927	29	1,670	4,208	1,483	2,784	3,398	6,448	237	1,415	3,825
Suffolk.....	12,339	30	2,527	6,162	2,321	4,611	5,219	17,529	563	(*)	(*)
Virginia Beach.....	5,390	7	51	153	43	82	124	346	5	(7)	(7)
Warwick.....	39,875	23	612	1,802	509	1,006	1,437	3,189	97	10,627	101,995
Waynesboro.....	12,357	23	4,682	19,161	3,620	7,050	12,457	34,502	4,647	(3)	(3)
Williamsburg.....	6,735	5	84	202	69	103	143	262	8	(D)	(D)
Winchester.....	13,841	31	2,156	5,510	1,829	3,669	4,143	10,825	560	1,565	5,615

\*Comparable 1947 data are not available because the boundaries of these areas have been significantly modified since 1947. The 1947 and 1954 data may not be strictly comparable for certain other counties and cities within the State because of boundary redefinitions between the two Census years.  
NA Not available

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>The 1947 data are not strictly comparable with the figures shown for 1954 due to differences in coverage of loggers and fluid milk distributors. See discussion in Introduction and footnotes to Table 4.

<sup>2</sup>Separate 1947 figures for Alleghany County and Covington City are not available for 1947. The combined 1947 figures for the areas are 4,151 employees and \$24,763 thousand value added by manufacture.

<sup>3</sup>Separate 1947 figures for Augusta County and Waynesboro City are not available for 1947. The combined 1947 figures for the areas are 6,928 employees and \$33,779 thousand value added by manufacture.

<sup>4</sup>Separate 1947 figures for Carroll and Grayson Counties and Galax City are not available for 1947. The combined 1947 figure for the areas is 4,239 employees. Value added by manufacture is withheld to avoid disclosing figures for individual companies.

<sup>5</sup>Separate 1947 figures for Chesterfield County and Colonial Heights City are not available for 1947. The combined 1947 figure for the areas is 5,316 employees. Value added by manufacture is withheld to avoid disclosing figures for individual companies.

<sup>6</sup>Separate 1947 figures for Fairfax County and Falls Church City are not available for 1947. The combined 1947 figures for the areas are 170 employees and \$765 thousand value added by manufacture.

<sup>7</sup>Separate 1947 figures for Princess Anne County and Virginia Beach City are not available for 1947. The combined figures for the areas are 190 employees and \$384 thousand value added by manufacture.

<sup>8</sup>Separate 1947 figures for Wise County and Norton City are not available for 1947. The combined 1947 figures for the areas are 508 employees and \$1,719 thousand value added by manufacture.

<sup>9</sup>Hampton City now includes the area shown as Elizabeth City County in 1947. The combined 1947 figures for the areas are 503 employees and \$1,581 thousand value added by manufacture.

<sup>10</sup>Warwick City is coextensive with the area shown as Warwick County in 1947.

<sup>11</sup>General statistics for Bristol City in Sullivan County, Tennessee are shown in Table 3 for the State of Tennessee.



Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954										1947	
		Establishments, number		All employees		Production workers			Value added by manufacture	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
	All industries, total <sup>1</sup> ...	4,398	1,290	239,733	760,454	202,654	394,735	576,844	1,629,041	( <sup>2</sup> )	109,887	<sup>3</sup> 216,507	<sup>3</sup> 1,050,623
20	Food and kindred products..	773	304	28,651	81,192	20,450	41,136	47,086	167,103	( <sup>2</sup> )	12,167	( <sup>4</sup> )	( <sup>4</sup> )
201	Meat products.....	91	42	5,434	15,410	4,628	9,475	11,845	29,321	( <sup>2</sup> )	1,484	3,332	13,825
2011	Meat packing, plants.....	40	19	3,017	10,074	2,413	4,962	7,318	19,121	( <sup>2</sup> )	1,193	1,991	8,612
2013	Prepared meats.....	14	3	237	724	185	359	441	1,419	( <sup>2</sup> )	42	550	3,436
2015	Poultry dressing, plants.....	37	20	2,179	4,612	2,029	4,153	4,086	8,780	58,029	249	791	1,777
202	Dairy products.....	102	50	3,884	13,165	2,038	4,812	5,750	25,903	( <sup>2</sup> )	1,860	( <sup>4</sup> )	( <sup>4</sup> )
2023	Concentrated milk.....	4	3	213	804	177	420	621	3,635	13,392	(D)	( <sup>4</sup> )	( <sup>4</sup> )
2024	Ice cream and ices.....	16	6	509	1,587	319	705	830	4,440	9,818	268	( <sup>4</sup> )	( <sup>4</sup> )
2026	Fluid milk.....	21	4	265	943	150	371	411	1,514	4,888	132	( <sup>4</sup> )	( <sup>4</sup> )
2027	Fluid milk and other products..	49	34	2,683	9,248	1,250	3,013	3,543	15,118	50,743	1,212	( <sup>4</sup> )	( <sup>4</sup> )
203	Canned and frozen foods.....	157	57	5,429	10,516	4,920	8,420	8,089	20,996	( <sup>2</sup> )	1,337	4,508	9,251
2031	Canned seafood.....	11	7	385	457	350	431	384	476	1,911	(D)	529	1,263
2033	Canned fruits and vegetables...	71	19	2,378	5,033	2,109	3,905	3,647	11,398	29,071	709	3,038	5,995
2035	Pickles and sauces.....	10	4	203	463	182	306	275	1,425	3,879	35	182	670
2036	Packaged seafood.....	57	23	1,962	3,482	1,864	3,033	2,934	5,045	12,443	490	(NA)	(NA)
204	Grain mill products.....	119	22	1,809	5,214	1,218	2,738	2,870	11,195	( <sup>2</sup> )	887	1,933	10,348
2042	Prepared animal feeds.....	49	15	1,021	3,110	643	1,450	1,563	6,882	41,789	693	1,095	5,813
205	Bakery products.....	72	40	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2051	Bread and related products.....	71	39	3,792	12,884	2,335	4,818	6,406	22,178	47,785	994	(D)	(D)
207	Candy and related products...	18	10	2,208	5,137	2,044	3,982	4,396	16,835	47,251	545	1,955	5,075
2071	Confectionery products.....	18	10	2,208	5,137	2,044	3,982	4,396	16,835	47,251	545	1,955	5,075
208	Beverages.....	114	59	3,268	10,421	1,411	3,176	3,257	20,002	( <sup>2</sup> )	2,802	2,555	13,753
2081	Bottled soft drinks.....	108	55	3,000	9,492	1,232	2,805	2,802	17,588	34,802	2,658	2,207	11,827
209	Miscellaneous foods.....	100	24	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2095	Flavorings.....	8	3	358	1,319	197	367	363	2,151	5,104	(D)	98	(D)
2099	Food preparations, n.e.c.....	46	13	1,009	2,759	770	1,486	1,626	10,447	35,214	1,777	(D)	(D)
21	Tobacco manufactures.....	30	28	14,620	43,423	13,232	24,723	35,940	202,069	( <sup>2</sup> )	5,044	16,687	143,021
2111	Cigarettes.....	5	5	8,273	28,415	7,600	14,767	24,773	177,449	438,532	4,432	7,725	118,548
2141	Tobacco stemming and redrying	19	18	4,303	9,376	3,865	6,854	7,187	13,877	219,792	374	6,109	13,728
22	Textile mill products.....	122	107	37,032	106,468	33,562	65,025	88,872	163,399	( <sup>2</sup> )	10,315	33,881	167,151
221	Woolen and worsted manufac- ture.....	12	11	2,702	6,808	2,451	4,672	5,678	13,558	( <sup>2</sup> )	466	1,873	8,497
222	Yarn and thread mills.....	7	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2222	Yarn throwing mills.....	5	5	824	2,232	804	1,720	2,122	3,897	4,592	61	758	(D)
223	Broad-woven fabrics.....	27	26	19,118	56,213	17,493	34,069	47,408	79,927	( <sup>2</sup> )	3,580	20,685	109,478
2241	Narrow fabric mills.....	6	6	960	2,355	907	1,802	2,078	4,787	10,614	215	503	2,286
225	Knitting mills.....	54	42	6,973	18,010	6,438	11,778	15,418	27,327	( <sup>2</sup> )	1,942	6,372	23,846
2251	Full-fashioned hosiery mills...	24	20	2,831	8,936	2,607	4,984	7,859	12,398	21,411	314	2,801	11,940
2252	Seamless hosiery mills.....	12	7	1,501	3,208	1,433	2,656	2,858	4,666	10,669	246	1,358	2,992
2253	Knit outerwear mills.....	11	9	1,913	3,759	1,775	2,995	3,050	5,745	12,826	275	339	683
2261	Finishing textiles exc. wool.	9	9	3,430	11,041	2,777	5,585	7,929	14,517	27,249	495	1,494	6,267
23	Apparel and related prod- ucts.....	169	116	19,584	40,867	18,470	34,002	35,441	59,293	( <sup>2</sup> )	1,149	15,057	48,971
231	Men's and boys' suits and coats.....	7	5	1,974	5,262	1,881	3,228	4,664	6,148	10,920	68	2,534	15,515
2311	Men's and boys' suits and coats	7	5	1,974	5,262	1,881	3,228	4,664	6,148	10,920	68	2,534	15,515
232	Men's and boys' furnishings..	48	46	8,937	15,589	8,581	15,341	14,130	24,077	( <sup>2</sup> )	368	6,394	15,956
2321	Men's dress shirts & nightwear.	18	17	3,387	5,845	3,256	6,138	5,314	8,633	16,568	122	1,322	2,393
2327	Separate trousers.....	5	5	1,698	3,004	1,661	3,101	2,856	3,981	7,697	20	1,356	2,502
2329	Men's and boys' clothing, nec..	20	20	3,472	5,967	3,305	5,418	5,255	10,302	34,320	152	2,906	8,894
233	Women's and misses' outerwear	22	20	2,911	6,199	2,743	5,356	5,497	9,066	32	76	1,530	3,144
2331	Blouses.....	3	3	228	374	218	368	338	467	500	(D)	...	...
2334	Dresses, dozen price.....	12	12	2,378	5,108	2,236	4,446	4,540	7,502	16,723	62	1,244	2,240
234	Women's undergarments.....	11	10	1,401	2,725	1,322	2,477	2,394	3,525	( <sup>2</sup> )	53	618	1,522
236	Children's outerwear.....	16	14	1,715	3,355	1,652	3,245	3,066	4,015	( <sup>2</sup> )	65	325	439
2361	Children's dresses.....	8	7	855	1,703	823	1,592	1,581	2,006	2,314	(D)	269	(D)
239	Fabricated textiles, n.e.c....	60	19	2,370	7,084	2,052	3,911	5,178	11,499	( <sup>2</sup> )	483	3,428	11,628
2392	Housefurnishings, n.e.c.....	13	6	1,276	4,161	1,115	2,079	2,967	6,806	20,307	416	1,947	(D)
2393	Textile bags.....	9	6	492	1,314	404	764	885	2,052	9,398	46	560	3,561
2394	Canvas products.....	26	7	552	1,497	487	984	1,254	2,449	5,383	17	152	416
24	Lumber and wood products...	1,872	221	22,767	45,513	20,991	37,305	37,777	72,647	( <sup>2</sup> )	4,540	( <sup>4</sup> )	( <sup>4</sup> )
2411	Logging camps and contractors	308	8	1,372	2,118	1,212	1,914	1,888	3,839	6,028	399	( <sup>4</sup> )	( <sup>4</sup> )
242	Lumber and basic products....	1,437	163	16,516	31,018	15,395	26,753	26,289	50,756	( <sup>2</sup> )	3,630	18,484	47,804
2421	Sawmills and planing mills....	1,391	149	15,361	28,152	14,341	24,725	24,020	45,567	101,926	3,331	17,901	45,958
2422	Veneer mills.....	13	10	740	2,109	659	1,368	1,579	3,695	7,001	273	213	1,051
2424	Cooperage stocks mills.....	21	3	283	474	272	410	437	844	1,491	6	251	350
2425	Excelsior mills.....	12	1	131	282	121	249	252	649	1,056	20	119	445
243	Millwork and related products	46	16	1,873	5,500	1,597	3,333	3,925	7,866	( <sup>2</sup> )	180	1,432	5,291
2431	Millwork plants.....	37	10	1,236	3,708	1,041	2,143	2,553	4,171	11,745	49	1,123	4,132

See footnotes at end of table.

## MANUFACTURES—AREA STATISTICS

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establish- ments, number		All employees		Production workers			Value added by manufacture	Value of shipments	Capital expendi- tures, new	All employees, number	Value added by manufacture
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
	Lumber and wood prod- ucts—Continued												
244	Wooden containers.....	41	19	2,142	4,827	2,018	3,898	4,051	6,553	( <sup>2</sup> )	109	2,488	6,653
2441	Fruit and vegetable baskets....	5	4	920	2,076	890	1,839	1,884	2,630	4,173	18	931	2,177
2444	Wooden boxes.....	29	15	1,187	2,680	1,097	1,999	2,112	3,818	8,815	84	1,285	3,756
249	Miscellaneous wood products..	40	15	862	2,049	768	1,404	1,622	3,630	( <sup>2</sup> )	220	864	3,651
2491	Wood preserving.....	8	5	321	815	282	490	624	1,923	5,252	123	456	2,548
2499	Wood products, n.e.c.....	27	10	501	1,141	449	839	910	1,583	3,157	91	399	(D)
25	Furniture and fixtures.....	156	66	15,290	45,332	12,627	26,409	32,578	79,987	( <sup>2</sup> )	2,284	13,878	53,858
251	Household furniture.....	115	54	12,610	36,217	10,885	23,040	28,007	63,595	( <sup>2</sup> )	1,862	13,415	52,260
2511	Wood furniture, not upholstered	79	39	11,105	31,910	9,586	20,416	24,994	55,797	113,010	1,602	12,323	47,618
2512	Upholstered household furniture	19	10	1,170	3,456	1,015	2,064	2,382	6,267	13,826	205	784	3,555
2515	Mattresses and bedsprings.....	13	4	275	693	230	465	504	1,162	2,671	(D)	305	(D)
2541	Partitions and fixtures.....	16	4	1,179	4,498	632	1,200	1,669	6,007	9,651	154	200	829
256	Screens, shades, and blinds..	19	3	279	763	211	413	459	1,149	( <sup>2</sup> )	36	(D)	(D)
26	Pulp, paper and products...	63	53	10,897	42,078	9,096	19,060	31,911	102,124	( <sup>2</sup> )	18,070	10,706	71,915
261	Pulp, paper and board.....	23	23	7,100	30,267	5,917	12,685	23,019	79,483	( <sup>2</sup> )	15,532	7,421	55,947
2612	Paper and paperboard mills.....	13	13	3,491	14,582	2,883	6,263	11,000	36,456	116,791	7,666	(NA)	(NA)
2661	Paper bags.....	9	7	1,210	3,645	1,046	2,025	2,754	7,182	21,825	412	644	3,308
267	Paperboard containers.....	20	13	1,201	3,588	961	1,897	2,643	6,840	( <sup>2</sup> )	1,293	964	5,271
269	Pulp, paper and products, n.e.c.....	7	6	790	2,562	699	1,403	2,083	5,010	( <sup>2</sup> )	447	1,299	5,513
27	Printing and publishing.....	396	64	8,016	29,492	5,048	9,996	17,458	48,209	( <sup>2</sup> )	2,758	5,861	29,867
2711	Newspapers.....	123	26	3,867	15,272	2,113	4,092	8,101	26,506	39,809	876	2,850	16,836
2721	Periodicals.....	14	3	273	1,027	10	25	51	1,810	3,071	58	99	(D)
273	Books.....	16	4	455	1,434	370	738	1,064	2,199	( <sup>2</sup> )	90	(D)	(D)
2731	Books, publishing and printing.	10	1	146	426	94	188	231	738	924	20	(D)	(D)
2732	Book printing.....	6	3	309	1,008	275	549	832	1,461	2,378	69	(D)	(D)
2751	Commercial printing.....	181	21	2,105	7,051	1,689	3,453	5,370	11,263	19,494	1,073	1,951	8,088
2761	Lithographing.....	23	5	605	2,348	481	861	1,590	3,278	5,439	362	143	895
279	Printing trade services.....	26	3	231	1,035	176	373	777	1,569	( <sup>2</sup> )	233	172	1,065
2793	Photoengraving.....	11	2	127	619	92	212	463	937	1,140	28	111	714
28	Chemicals and products.....	157	85	34,977	146,800	27,218	54,139	101,798	435,655	( <sup>2</sup> )	33,796	33,767	218,528
281	Inorganic chemicals.....	10	9	4,048	16,260	3,157	6,537	11,766	55,515	( <sup>2</sup> )	7,790	3,653	25,119
282	Organic chemicals.....	21	18	25,690	110,438	20,244	39,536	77,987	311,421	( <sup>2</sup> )	23,960	24,302	157,828
2825	Synthetic fibers.....	9	9	15,669	67,420	12,186	23,560	46,653	235,309	374,177	10,414	20,672	138,149
2829	Organic chemicals, n.e.c.....	7	5	724	3,490	527	1,015	2,107	9,405	19,260	903	(NA)	(NA)
283	Drugs and medicines.....	24	7	1,333	6,497	824	1,606	3,040	35,664	( <sup>2</sup> )	270	1,070	7,029
285	Paints and allied products...	20	7	726	2,869	503	986	1,594	7,715	( <sup>2</sup> )	(D)	875	4,335
2851	Paints and varnishes.....	14	3	238	1,018	128	259	383	2,073	5,449	19	246	(D)
287	Fertilizers.....	36	27	1,949	6,524	1,569	3,483	4,781	15,625	( <sup>2</sup> )	957	2,252	13,335
2871	Fertilizers.....	16	13	1,263	4,198	1,080	2,387	3,348	11,451	31,213	653	1,310	7,977
2872	Fertilizers, mixing only.....	20	14	686	2,326	489	1,096	1,433	4,173	17,277	304	942	5,358
288	Vegetable and animal oils....	13	9	556	2,012	463	1,097	1,484	4,369	( <sup>2</sup> )	582	689	5,270
2889	Animal oils, n.e.c.....	3	3	163	512	143	353	466	1,226	4,641	314	318	1,487
2897	Insecticides and fungicides....	5	2	195	599	160	296	394	884	2,754	35	182	(D)
29	Petroleum and coal products	10	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	291	1,143
30	Rubber products.....	12	3	1,091	3,606	837	1,647	2,424	7,388	14,455	595	667	(D)
3099	Rubber industries, n.e.c.....	12	3	1,091	3,606	837	1,647	2,424	7,388	14,455	595	667	(D)
31	Leather and leather prod- ucts.....	29	19	5,137	12,001	4,653	8,182	10,341	16,682	( <sup>2</sup> )	1,549	5,334	17,423
3131	Footwear cut stock.....	4	2	137	307	121	214	249	457	1,134	30	142	484
32	Stone, clay, and glass products.....	197	69	6,465	20,042	5,504	11,315	15,029	46,422	( <sup>2</sup> )	3,102	4,537	19,450
3231	Products of purchased glass..	8	5	586	1,679	529	1,147	1,198	3,498	9,258	107	595	2,672
325	Structural clay products.....	21	14	896	2,494	824	1,622	2,087	4,674	( <sup>2</sup> )	604	807	3,033
327	Concrete and plaster products	131	36	2,756	8,785	2,281	4,763	6,406	20,194	( <sup>2</sup> )	1,304	2,305	9,645
3271	Concrete products.....	116	28	1,827	5,523	1,474	2,980	3,686	10,400	19,933	1,044	1,510	5,724
329	Nonmetallic mineral products, n.e.c.....	13	5	1,040	3,118	858	1,780	2,263	6,521	( <sup>2</sup> )	453	212	1,131
3295	Minerals: ground or treated...	9	1	128	402	99	230	261	1,019	2,018	80	70	(D)
33	Primary metal industries...	38	18	3,178	11,325	2,790	5,565	9,342	17,350	( <sup>2</sup> )	1,826	3,754	12,801
332	Iron and steel foundries.....	31	13	2,618	9,278	2,287	4,548	7,643	14,575	27,742	1,723	2,848	10,045
3321	Gray-iron foundries.....	31	13	2,618	9,278	2,287	4,548	7,643	14,575	27,742	1,723	2,848	10,045
34	Fabricated metal products..	112	49	7,007	26,708	5,605	11,156	19,007	44,856	( <sup>2</sup> )	1,354	5,792	26,660
342	Cutlery, tools and hardware..	5	2	674	1,861	560	1,070	1,340	2,962	( <sup>2</sup> )	150	154	489
344	Structural metal products....	73	36	4,267	16,883	3,260	6,396	11,055	23,655	( <sup>2</sup> )	812	3,215	14,538
3441	Structural and ornamental work.	41	22	2,922	11,848	2,257	4,424	7,809	16,417	36,262	543	2,006	9,473
3442	Metal doors, sash and trim....	7	3	437	1,633	312	613	961	2,396	4,389	47	232	(D)
3443	Boiler shop products.....	7	5	570	2,181	407	859	1,398	2,800	6,562	79	748	2,921
3444	Sheet-metal work.....	18	6	337	1,220	282	500	886	2,041	4,534	142	229	(D)

See footnotes at end of table.



Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establish- ments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
346	Fabricated metal prod- ucts--Continued												
	Metal stamping and coating...	10	2	110	277	92	190	221	463	( <sup>2</sup> )	16	(D)	(D)
348	Fabricated wire products.....	7	2	191	653	161	310	488	1,860	3,960	7	(D)	(D)
3489	Wirework, n.e.c.....	7	2	191	653	161	310	488	1,860	3,960	7	(D)	(D)
35	Machinery, except electri- cal.....	96	30	2,416	8,504	1,889	3,704	6,001	15,651	( <sup>2</sup> )	5,331	1,657	6,096
352	Tractors and farm machinery..	14	5	432	1,366	342	626	950	1,985	4,082	139	311	1,020
3522	Farm machinery (exc. tractors).	14	5	432	1,366	342	626	950	1,985	4,082	139	311	1,020
355	Special-industry machinery, n.e.c.....	18	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3559	Special-industry mach., n.e.c..	9	3	216	823	162	312	502	1,549	7,637	266	320	1,719
356	General industrial machinery.	10	4	251	808	211	371	607	1,421	( <sup>2</sup> )	(D)	357	1,364
358	Service and household ma- chines.....	4	3	209	592	110	215	352	2,134	( <sup>2</sup> )	4,525	13	(D)
3585	Refrigeration machinery.....	4	3	209	592	110	215	352	2,134	( <sup>2</sup> )	4,525	13	(D)
359	Miscellaneous machinery parts	35	9	602	2,187	506	1,077	1,661	3,321	( <sup>2</sup> )	143	(D)	(D)
3599	Machine shops.....	31	9	577	2,108	485	1,040	1,606	3,193	4,602	125	286	(D)
36	Electrical machinery.....	18	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
361	Electrical industrial appa- ratus.....	5	2	139	322	120	283	252	307	( <sup>2</sup> )	2,766	...	...
366	Communication equipment.....	9	3	363	1,183	299	590	815	1,948	( <sup>2</sup> )	116	(D)	(D)
37	Transportation equipment...	58	19	18,054	83,901	16,718	33,402	75,900	129,097	( <sup>2</sup> )	2,350	16,505	70,751
371	Motor vehicles and equipment.	13	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3713	Truck and bus bodies.....	10	3	214	710	178	370	497	857	1,510	45	88	(D)
373	Ships and boats.....	41	14	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3732	Boat building and repairing....	30	6	501	1,575	441	719	1,324	2,082	3,529	148	186	912
38	Instruments and related products.....	17	7	1,536	4,461	1,337	2,644	3,303	6,370	( <sup>2</sup> )	133	1,155	(D)
384	Medical equipment and sup- plies.....	4	1	136	357	102	199	185	574	( <sup>2</sup> )	11	(D)	(D)
39	Miscellaneous manufactures <sup>5</sup>	73	23	2,243	6,436	1,981	4,067	4,979	10,971	( <sup>2</sup> )	528	1,824	5,316
395	Office supplies.....	10	5	375	917	318	649	661	1,496	( <sup>2</sup> )	(D)	267	944
396	Costume jewelry and notions..	4	3	407	1,166	377	793	1,040	2,320	( <sup>2</sup> )	61	(D)	(D)
398 399	Miscellaneous manufactures <sup>5</sup> ..	42	8	842	2,658	727	1,484	1,997	4,380	( <sup>2</sup> )	158	670	1,989
3988	Morticians' goods.....	8	2	193	504	166	333	361	1,029	1,835	18	182	661
3993	Signs and advertising displays.	22	3	414	1,387	369	770	1,060	2,214	3,919	128	404	1,097

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industries (4-digit) and industry groups (3-digit) are not shown. Industries and industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "all industries" line.

<sup>2</sup>The total value of shipments figures for industry groups and a few individual industries have not been published due to the extensive and unmeasurable duplication arising from shipments from one establishment to another in the same industry classification. (See Introduction.)

<sup>3</sup>The 1954 and 1947 "all industries" totals are not strictly comparable because of differences in scope between the two years in Major groups 20 and 24 (see footnote 4).

<sup>4</sup>Comparable data for Major Groups 20 and 24 are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude establishments in S.I.C. Industry 2411, Logging Camps and Contractors, which are included in the scope of the 1954 Census; the 1947 Census also excludes plants processing and distributing fluid milk which in 1954 were classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
20	Food and kindred products except subgroup 202, Dairy products.....	24,767	141,200	20,418	81,187
24	Lumber and wood products except Industry 2411, Logging camps and contractors.....	21,395	68,808	23,268	63,399

<sup>5</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)



## MANUFACTURES—AREA STATISTICS

Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUPS: 1954 AND 1947

(This State contained no standard metropolitan area with 40,000 or more manufacturing employees in 1954 or 1947)

Table 6.—GENERAL STATISTICS FOR PRINCIPAL INDUSTRIAL COUNTIES, BY MAJOR INDUSTRY GROUP: 1954 AND 1947

(Principal industrial counties include all counties with 20,000 or more manufacturing employees. For explanation of column captions see Introduction)

Code	Major industry group	1954							1947		
		Establish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendit- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
		RICHMOND COUNTY									
	All industries, total <sup>1</sup> ....	381	30,375	102,915	23,998	46,383	71,193	285,599	15,719	<sup>2</sup> 28,126	<sup>2</sup> 204,385
20	Food and kindred products....	64	4,693	15,952	2,885	5,772	8,188	27,958	2,857	4,055	15,987
21	Tobacco manufactures.....	12	9,660	30,300	8,665	15,722	24,756	158,874	3,511	11,820	130,198
23	Apparel and related products.	27	2,623	8,004	2,326	4,330	6,175	12,967	507	2,296	9,592
26	Pulp, paper and products.....	25	3,102	10,701	2,572	5,499	7,999	18,711	6,485	2,675	13,601
27	Printing and publishing.....	99	3,189	11,451	1,962	3,801	6,558	18,155	665	1,742	7,670
34	Fabricated metal products....	24	2,547	10,099	2,079	4,263	7,569	19,636	500	2,425	11,478

D Withheld to avoid disclosing data for individual companies.

<sup>1</sup>In order to avoid disclosing data for individual companies, the statistics for some industry groups are not shown. Industry groups reporting less than 100 employees are also omitted. They are included, however, in the "All industries" line.<sup>2</sup>The 1954 and 1947 "All industries" totals are not strictly comparable because of differences in coverage of loggers and fluid milk distributors. See discussion in Introduction and footnote to Table 4 for comparable figures at the State level.

20 Food and kindred products	26 Pulp, paper and products	32 Stone, clay, and glass products	38 Instruments and related products
21 Tobacco manufactures	27 Printing and publishing	33 Primary metal industries	
22 Textile mill products	28 Chemicals and products	34 Fabricated metal products	39 Miscellaneous manufactures (Includes Group 19 Ordnance and accessories)
23 Apparel and related products	29 Petroleum and coal products	35 Machinery, except electrical	
24 Lumber and wood products	30 Rubber products	36 Electrical machinery	
25 Furniture and fixtures	31 Leather and leather goods	37 Transportation equipment	

State, county, and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
<b>Virginia, total</b> .....	4,398	773	30	122	169	1,872	156	63	396	157	10	12	29	197	38	112	96	18	58	17	73
1 to 4 employees.....	1,640	200	1	7	26	925	46	3	192	43	2	5	6	59	8	30	28	6	22	4	27
5 to 9 employees.....	735	124	...	3	12	364	26	4	81	10	3	3	3	38	8	13	17	3	8	3	12
10 to 19 employees.....	733	145	1	5	15	362	18	3	59	19	2	1	1	31	4	20	21	3	9	3	11
20 to 49 employees.....	557	164	2	17	17	145	23	11	37	39	3	1	3	33	7	20	18	1	4	2	10
50 to 99 employees.....	295	78	5	24	33	47	11	6	11	17	...	...	3	21	4	8	8	3	8	1	7
100 to 249 employees.....	264	46	7	29	47	24	12	23	12	11	...	...	5	11	4	16	3	2	4	3	5
250 to 499 employees.....	103	11	8	22	12	5	13	9	2	5	...	1	5	4	1	2	1	...	1	...	1
500 to 999 employees.....	45	4	1	12	7	...	5	3	2	2	...	1	2	...	2	3	...	...	...	1	...
1,000 to 2,499 employees.....	19	1	5	2	...	...	2	1	...	6	...	...	1	...	...	...	...	...	1	...	...
2,500 employees and over.....	7	...	...	1	...	...	...	...	...	5	...	...	...	...	...	...	...	...	1	...	...
<b>Accomack:</b>																					
1 to 19 employees.....	37	12	...	...	...	21	...	...	1	...	...	...	...	2	...	...	...	...	1	...	...
20 to 99 employees.....	14	8	...	...	1	4	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
<b>Albemarle:</b>																					
1 to 19 employees.....	31	3	...	...	...	26	...	...	...	1	...	...	...	...	...	...	1	...	...	...	...
20 to 99 employees.....	6	1	...	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
100 employees and over.....	4	1	...	2	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
<b>Alleghany:</b>																					
1 to 19 employees.....	5	...	...	...	...	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	3	...	...	...	2	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
<b>Amelia:</b>																					
1 to 19 employees.....	14	1	...	...	...	12	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
<b>Amherst:</b>																					
1 to 19 employees.....	27	3	...	...	...	19	...	...	2	...	...	...	...	1	...	1	...	...	...	...	1
20 to 99 employees.....	3	...	...	...	1	1	...	...	...	1	...	...	...	...							

## MANUFACTURES—AREA STATISTICS

Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954—Continued  
(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Chesterfield:																					
1 to 19 employees.....	31	2	...	...	...	23	2	...	...	1	...	...	...	2	1	...	...	...	...	...	...
20 to 99 employees.....	8	...	...	...	...	4	...	...	...	2	...	...	...	2	...	...	...	...	...	...	...
100 employees and over.....	3	...	...	...	...	...	...	...	...	2	...	...	...	1	...	...	...	...	...	...	...
Clarke:																					
1 to 19 employees.....	9	1	...	1	...	4	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Craig:																					
1 to 19 employees.....	3	...	...	...	...	2	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Culpeper:																					
1 to 19 employees.....	21	7	...	1	...	9	2	...	1	1	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	3	...	...	...	1	...	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...
Cumberland:																					
1 to 19 employees.....	8	...	...	...	...	8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Dickenson:																					
1 to 19 employees.....	9	...	...	...	...	8	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Dinwiddie:																					
1 to 19 employees.....	24	1	...	...	...	22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
20 to 99 employees.....	4	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Essex:																					
1 to 19 employees.....	34	3	...	...	...	28	1	...	1	...	...	...	...	...	...	...	1	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Fairfax:																					
1 to 19 employees.....	25	2	...	...	...	11	1	...	6	1	...	...	...	3	...	...	1	...	...	...	...
20 to 99 employees.....	3	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1	...	...	...	...
Fauquier:																					
1 to 19 employees.....	20	1	...	...	...	14	...	...	2	...	...	...	...	3	...	...	...	...	...	...	...
20 to 99 employees.....	3	1	...	...	...	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...
Floyd:																					
1 to 19 employees.....	32	2	...	...	...	29	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Fluvanna:																					
1 to 19 employees.....	27	2	...	...	...	23	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	2	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Franklin:																					
1 to 19 employees.....	50	4	...	...	...	44	...	...	2	...	...	...	...	...	...	...	...	...	...	...	1
20 to 99 employees.....	8	...	...	1	1	3	1	...	...	1	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	3	...	...	1	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Frederick:																					
1 to 19 employees.....	16	5	...	2	...	5	...	...	...	...	...	...	...	3	...	...	...	1	...	...	...
20 to 99 employees.....	5	2	...	...	...	1	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...
100 employees and over.....	3	...	...	1	...	...	...	...	...	...	...	1	...	1	...	...	...	...	...	...	...
Giles:																					
1 to 19 employees.....	14	1	...	...	...	11	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	3	...	...	...	...	...	...	...	...	...	...	...	...	3	...	...	...	...	...	...	...
100 employees and over.....	3	...	...	...	...	...	...	...	...	1	...	...	1	1	...	...	...	...	...	...	...
Gloucester:																					
1 to 19 employees.....	25	3	...	...	...	16	1	...	1	...	...	...	...	1	...	...	1	...	2	...	...
20 to 99 employees.....	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Goochland:																					
1 to 19 employees.....	16	...	...	...	...	16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Grayson:																					
1 to 19 employees.....	16	...	...	1	...	15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	2	...	...	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	3	...	...	1	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Greene:																					
1 to 19 employees.....	7	...	...	...	...	7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Greensville:																					
1 to 19 employees.....	25	4	...	...	1	14	1	1	2	...	...	...	...	2	...	...	...	...	...	...	...
20 to 99 employees.....	7	2	...	1	...	3	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...
100 employees and over.....	6	...	...	2	...	2	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...
Halifax:																					
1 to 19 employees.....	25	3	1	...	...	17	...	...	3	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	8	2	1	...	...	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	6	...	2	3	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
Hanover:																					
1 to 19 employees.....	51	4	...	...	...	43	...	...	2	...	...	...	...	2	...	...	...	...	...	...	...
20 to 99 employees.....	8	2	...	...	...	5	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Henrico:																					
1 to 19 employees.....	37	1	...	...	...	13	4	...	5	2	1	...	1	3	...	3	1	...	...	2	1
20 to 99 employees.....	14	...	...	...	...	5	...	2	...	2	...	...	...	2	...	1	2	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
Henry:																					
1 to 19 employees.....	65	...	...	...	...	61	...	...	1	...	...	1	...	...	...	...	1	...	1	...	...
20 to 99 employees.....	2	...	...	...	...	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	14	...	...	3	1	2	6	...	...	1	...	...	...	1	...	...	...	...	...	...	...



Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954—Continued  
(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Highland:																					
1 to 19 employees.....	14	...	...	...	...	13	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	..	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
Isle of Wight:																					
1 to 19 employees.....	21	4	...	...	...	14	...	...	1	...	...	...	...	...	...	...	1	...	1	...	...
20 to 99 employees.....	2	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	6	2	...	...	...	1	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...
James City:																					
1 to 19 employees.....	15	1	...	...	...	10	...	...	...	...	...	...	...	3	...	1	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
King and Queen:																					
1 to 19 employees.....	29	...	...	...	...	29	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
King George:																					
1 to 19 employees.....	11	...	...	...	...	11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	2	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
King William:																					
1 to 19 employees.....	19	...	...	...	...	18	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...
Lancaster:																					
1 to 19 employees.....	32	14	...	...	...	15	...	...	1	...	...	...	...	...	...	...	...	...	2	...	...
20 to 99 employees.....	10	6	...	...	...	2	...	...	...	1	...	...	...	...	...	...	...	...	1	...	...
Lee:																					
1 to 19 employees.....	10	1	...	...	...	6	1	...	1	...	...	...	...	1	...	...	...	...	...	...	...
Loudoun:																					
1 to 19 employees.....	15	5	...	...	...	7	...	...	2	...	...	...	...	...	...	...	...	...	1	...	...
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Louisa:																					
1 to 19 employees.....	48	1	...	...	1	42	2	...	...	...	...	...	...	1	...	...	...	...	...	...	1
20 to 99 employees.....	5	...	...	...	...	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Lunenburg:																					
1 to 19 employees.....	23	5	...	...	...	16	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	5	...	...	...	...	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	3	...	1	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
Madison:																					
1 to 19 employees.....	14	2	...	...	...	10	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	5	...	...	...	1	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Mathews:																					
1 to 19 employees.....	16	2	...	...	...	10	...	...	1	...	...	...	...	2	...	1	...	...	...	...	...
20 to 99 employees.....	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Mecklenburg:																					
1 to 19 employees.....	45	3	...	...	...	36	...	...	4	1	...	...	...	...	...	...	...	...	1	...	...
20 to 99 employees.....	6	1	...	1	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	7	...	...	2	2	2	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
Middlesex:																					
1 to 19 employees.....	26	3	...	...	...	14	...	...	1	...	...	...	...	1	...	...	...	...	6	...	1
20 to 99 employees.....	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Montgomery:																					
1 to 19 employees.....	24	7	...	...	...	13	...	...	1	...	...	...	...	1	...	...	...	1	...	...	1
20 to 99 employees.....	3	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
100 employees and over.....	3	...	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...
Nansemond:																					
1 to 19 employees.....	22	7	...	...	...	12	...	...	...	1	...	...	...	1	...	...	1	...	...	...	...
20 to 99 employees.....	8	2	...	...	...	5	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Nelson:																					
1 to 19 employees.....	12	...	...	...	...	12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
New Kent:																					
1 to 19 employees.....	14	...	...	...	...	14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	3	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Norfolk:																					
1 to 19 employees.....	20	4	...	...	1	9	1	...	...	...	...	...	...	1	...	1	...	...	1	...	2
20 to 99 employees.....	6	1	...	...	...	2	...	...	...	2	...	...	...	...	...	...	...	...	1	...	...
100 employees and over.....	4	...	...	...	...	1	...	...	...	1	...	...	...	1	...	...	...	...	1	...	...
Northampton:																					
1 to 19 employees.....	15	10	...	...	...	3	...	...	1	...	...	...	...	...	...	...	...	1	...	...	...
20 to 99 employees.....	6	5	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	3	2	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Northumberland:																					
1 to 19 employees.....	29	17	...	...	...	6	...	...	1	1	...	...	...	1	...	...	...	...	3	...	...
20 to 99 employees.....	5	1	...	...	...	1	...	...	...	2	...	...	...	...	...	...	...	...	1	...	...
Nottoway:																					
1 to 19 employees.....	21	1	...	...	...	18	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	9	...	...	2	2	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Orange:																					
1 to 19 employees.....	18	4	...	...	...	9	...	...	1	...	...	...	...	...	...	...	2	1	...	...	1
20 to 99 employees.....	8	...	...	3	...	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	4	...	...	2	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Page:																					
1 to 19 employees.....	19	9	1	...	...	6	...	...	2	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	3	1	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	4	...	...	2	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...



Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954—Continued  
(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Washington:																					
1 to 19 employees.....	20	4	...	1	1	9	...	...	2	2	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	2	...	...	1	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	5	2	...	...	1	...	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Westmoreland:																					
1 to 19 employees.....	32	14	...	...	...	13	...	...	1	...	...	...	...	1	...	...	...	...	3	...	...
20 to 99 employees.....	3	1	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Wise:																					
1 to 19 employees.....	25	4	...	...	...	10	1	...	3	...	1	...	...	3	1	...	1	...	...	...	1
20 to 99 employees.....	4	1	...	...	...	1	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Wythe:																					
1 to 19 employees.....	27	8	...	2	...	12	...	...	3	1	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	3	...	...	1	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	4	...	...	1	2	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
York:																					
1 to 19 employees.....	13	3	...	...	1	5	...	...	...	...	...	...	...	1	...	1	...	...	2	...	...
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
INDEPENDENT CITIES																					
Alexandria:																					
1 to 19 employees.....	31	4	...	...	1	2	1	...	8	2	1	...	...	2	...	2	3	1	1	...	3
20 to 99 employees.....	16	4	...	...	...	...	2	...	1	3	...	...	...	3	1	1	...	1	...	...	...
100 employees and over.....	3	1	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...
Bristol:																					
1 to 19 employees.....	20	5	...	...	...	2	2	1	2	1	...	...	...	1	...	...	...	...	2	...	4
20 to 99 employees.....	12	5	...	1	1	2	...	1	...	...	...	...	...	...	...	...	2	...	...	...	...
100 employees and over.....	10	2	...	1	1	1	1	...	1	...	...	...	...	...	...	2	1	...	...	...	...
Buena Vista:																					
1 to 19 employees.....	3	...	...	...	...	...	...	...	1	...	...	...	1	...	...	...	1	...	...	...	...
20 to 99 employees.....	2	...	...	...	...	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
Charlottesville:																					
1 to 19 employees.....	13	3	...	...	...	1	...	...	5	...	...	...	...	2	...	2	...	...	...	...	...
20 to 99 employees.....	13	5	...	1	2	...	...	...	1	...	...	...	...	1	...	1	1	...	...	...	...
100 employees and over.....	6	1	...	1	1	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1
Clifton Forge:																					
1 to 19 employees.....	3	2	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Colonial Heights:																					
1 to 19 employees.....	2	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
20 to 99 employees.....	4	2	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Covington:																					
1 to 19 employees.....	6	3	...	...	...	...	...	...	1	...	...	...	...	1	1	...	...	...	...	...	...
20 to 99 employees.....	3	1	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	4	...	...	1	...	...	...	2	...	1	...	...	...	...	...	...	...	...	...	...	...
Danville:																					
1 to 19 employees.....	26	7	...	...	4	1	2	...	5	1	...	...	...	3	1	...	2	...	...	...	...
20 to 99 employees.....	24	13	2	...	1	3	...	...	2	...	...	...	...	1	...	...	2	...	...	...	...
100 employees and over.....	7	...	4	2	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Falls Church:																					
1 to 19 employees.....	6	...	...	...	...	...	1	...	3	...	...	...	...	...	...	1	...	1	...	...	...
Fredericksburg:																					
1 to 19 employees.....	14	3	...	...	...	5	...	...	3	...	...	...	...	...	...	1	1	...	...	...	1
20 to 99 employees.....	7	2	...	...	1	1	...	...	1	...	...	...	...	1	...	1	...	...	...	...	...
100 employees and over.....	5	1	...	...	3	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
Hampton:																					
1 to 19 employees.....	36	7	...	...	1	5	4	...	6	3	...	1	...	2	...	3	1	...	2	1	...
20 to 99 employees.....	11	10	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...
100 employees and over.....	2	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1	...	...	...
Harrisonburg:																					
1 to 19 employees.....	11	2	...	...	1	...	...	1	3	1	...	...	...	...	1	1	...	...	...	...	1
20 to 99 employees.....	15	10	...	1	...	...	1	...	1	1	...	...	...	...	...	1	...	...	...	...	...
100 employees and over.....	4	2	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hopewell:																					
1 to 19 employees.....	5	1	...	...	...	...	...	1	1	...	...	...	...	1	1	...	...	...	...	...	...
20 to 99 employees.....	2	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	7	...	...	1	...	...	...	3	...	3	...	...	...	...	...	1	...	...	...	...	...
Lynchburg:																					
1 to 19 employees.....	33	8	...	...	1	4	2	...	6	1	...	1	...	2	1	1	4	1	1	...	...
20 to 99 employees.....	29	12	1	...	4	...	...	...	4	1	...	...	4	1	...	...	1	1	...	...	...
100 employees and over.....	25	1	...	2	7	...	...	4	1	1	...	...	3	...	3	1	1	...	...	...	1
Martinsville:																					
1 to 19 employees.....	17	3	...	2	1	2	1	...	3	2	...	...	...	2	...	...	...	...	...	...	1
20 to 99 employees.....	6	1	...	2	1	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	15	...	...	4	1	2	6	1	...	...	...	...	...	1	...	...	...	...	...	...	...
Newport News:																					
1 to 19 employees.....	24	2	...	...	2	2	4	...	5	1	...	...	...	2	...	1	1	...	1	1	2
20 to 99 employees.....	15	7	...	1	2	...	...	...	1	...	...	...	...	1	...	1	...	...	2	...	...
100 employees and over.....	5	...	...	...	1	...	...	1	1	...	...	...	...	1	...	...	...	...	1	...	...
Norfolk:																					
1 to 19 employees.....	123	23	...	1	8	4	14	...	28	5	1	1	2	6	2	10	8	1	3	...	6
20 to 99 employees.....	58	22	...	...	7	1	4	1	2	6	...	...	...	...	1	8	2	...	4	...	...
100 employees and over.....	29	12	1	1	1	1	...	...	1	2	...	...	...	2	...	1	...	...	5	...	...

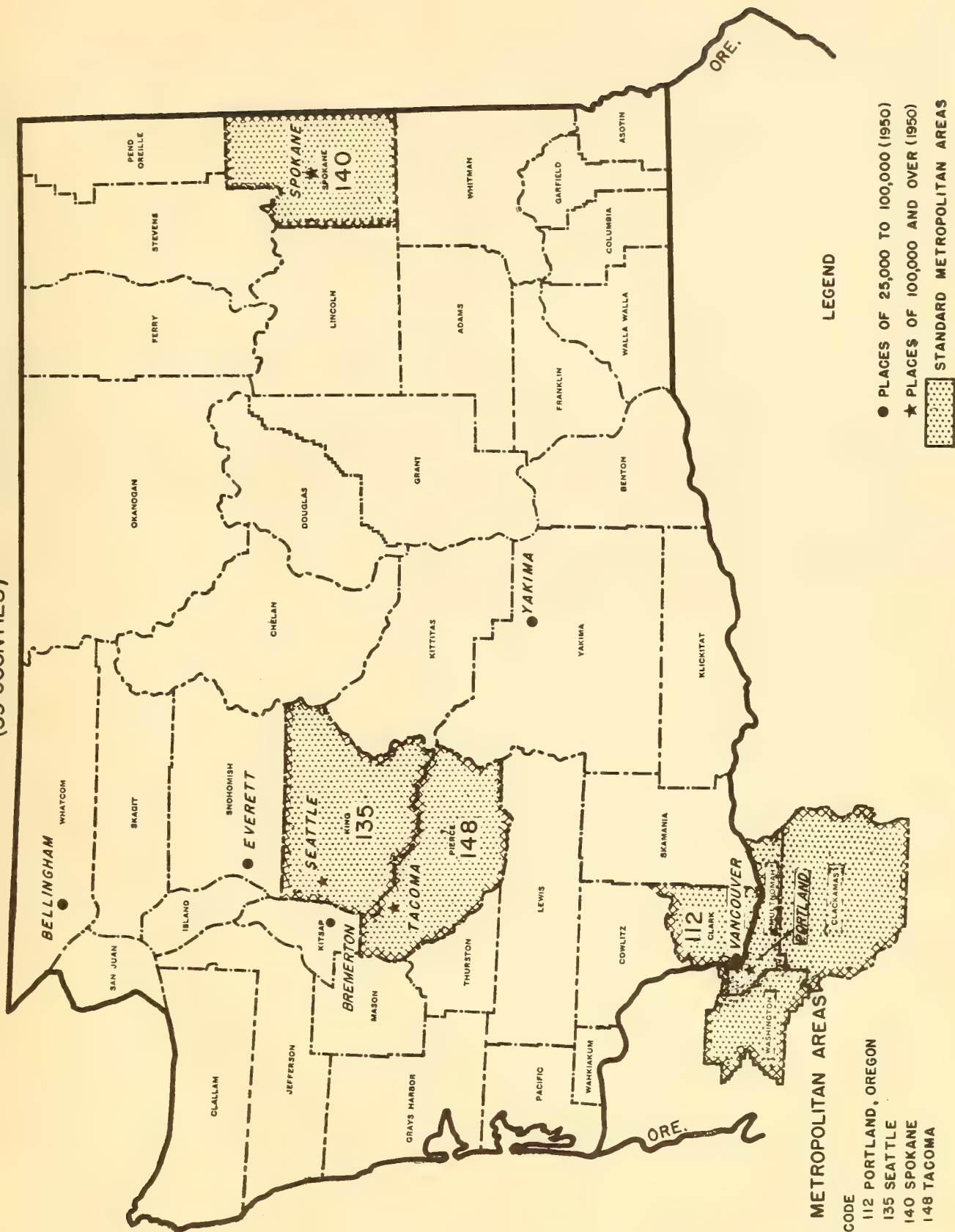


## MANUFACTURES—AREA STATISTICS

Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954—Continued  
(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Petersburg:																					
1 to 19 employees.....	32	8	...	...	...	2	2	...	8	1	...	...	...	2	1	3	2	...	...	...	3
20 to 99 employees.....	14	3	1	2	1	3	1	...	1	...	...	...	...	1	...	...	...	...	...	...	1
100 employees and over.....	12	1	3	...	4	...	...	...	...	...	...	...	1	...	...	1	...	...	...	2	...
Portsmouth:																					
1 to 19 employees.....	32	4	...	...	5	4	3	...	7	...	...	...	1	1	1	1	1	...	2	...	...
20 to 99 employees.....	14	5	...	...	1	2	1	...	...	2	...	...	...	...	3	...	...	...	...	...	...
100 employees and over.....	6	...	...	...	1	2	...	...	1	1	...	...	...	...	...	...	...	...	...	...	1
Radford:																					
1 to 19 employees.....	2	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	3	...	...	1	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	5	1	...	1	1	...	...	...	...	1	...	...	...	...	1	...	...	...	...	...	...
Richmond:																					
1 to 19 employees.....	215	29	...	...	15	12	14	5	75	17	2	2	3	6	3	11	10	...	...	4	7
20 to 99 employees.....	103	24	2	1	5	6	7	5	17	9	...	1	2	5	1	6	6	...	1	...	5
100 employees and over.....	63	11	10	1	7	1	1	15	7	1	...	...	...	...	1	7	1	...	...	...	...
Roanoke:																					
1 to 19 employees.....	54	11	...	...	2	3	5	...	13	3	...	1	...	4	1	6	2	1	...	...	2
20 to 99 employees.....	30	13	...	...	1	1	2	...	1	2	...	...	...	3	1	2	1	...	1	...	2
100 employees and over.....	20	6	...	1	4	1	1	1	2	1	...	...	...	...	1	2	...	...	...	...	...
South Norfolk:																					
1 to 19 employees.....	4	1	...	...	1	1	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
20 to 99 employees.....	10	...	...	...	...	3	...	...	...	7	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	4	...	...	...	...	...	...	...	...	2	...	...	...	1	...	1	...	...	...	...	...
Staunton:																					
1 to 19 employees.....	19	5	...	...	1	2	...	...	6	1	...	...	...	2	...	...	1	...	...	...	1
20 to 99 employees.....	6	4	...	...	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	4	...	...	1	2	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Suffolk:																					
1 to 19 employees.....	19	2	...	...	1	7	...	1	2	1	...	1	...	2	...	...	...	...	1	...	1
20 to 99 employees.....	8	3	...	...	...	1	1	...	1	...	...	...	...	...	...	...	2	...	...	...	...
100 employees and over.....	3	1	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Virginia Beach:																					
1 to 19 employees.....	6	2	...	...	...	...	...	...	3	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Warwick:																					
1 to 19 employees.....	17	4	...	...	...	7	1	...	1	...	...	...	...	1	...	...	1	...	1	...	1
20 to 99 employees.....	5	2	...	...	...	...	...	...	...	...	...	...	...	1	...	1	...	...	...	1	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Waynesboro:																					
1 to 19 employees.....	5	2	...	...	...	...	...	...	2	...	...	...	...	...	...	...	1	...	...	...	...
20 to 99 employees.....	12	3	...	1	...	2	...	...	1	...	...	...	...	...	...	1	1	1	...	...	2
100 employees and over.....	6	...	...	2	...	...	1	...	...	2	...	...	...	...	...	1	...	...	...	...	...
Williamsburg:																					
1 to 19 employees.....	4	...	...	...	...	1	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Winchester:																					
1 to 19 employees.....	15	5	...	1	...	1	1	...	2	1	...	1	...	2	...	1	...	...	...	...	...
20 to 99 employees.....	10	4	...	3	...	...	1	...	1	...	...	...	...	...	1	...	...	...	...	...	...
100 employees and over.....	6	4	...	1	...	1	...	...	...	...	...	0	...	...	...	...	...	...	...	...	...
Galax:																					
1 to 19 employees.....	6	2	...	1	...	2	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	2	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	10	...	...	3	...	1	5	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Norton:																					
1 to 19 employees.....	4	1	...	...	...	2	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	2	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...

# WASHINGTON (39 COUNTIES)



## MANUFACTURES—AREA STATISTICS

Table 1.—MANUFACTURING EMPLOYMENT AT OPERATING ESTABLISHMENTS AND CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARIES FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS

(This table includes data for all manufacturing employees including those located in central administrative offices and auxiliaries. Tables 2-7 in this report include data for operating establishments only. For explanation of column captions see Introduction)

State, standard metropolitan areas, and year <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	(Number)	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
Washington:						
1954.....	194,171	854,686	192,354	842,660	1,817	12,026
1953 <sup>2</sup> .....	190,214	823,147	188,708	814,495	1,506	8,652
1952 <sup>2</sup> .....	201,008	813,115	199,559	806,575	<sup>3</sup> 1,449	<sup>3</sup> 6,540
1951 <sup>2</sup> .....	193,530	760,374	192,081	753,834	1,449	6,540
1950 <sup>2</sup> .....	162,661	566,785	161,047	560,249	1,614	6,536
1949 <sup>2</sup> .....	157,695	519,379	156,399	512,987	1,296	6,392
1954						
Standard metropolitan areas:						
Portland <sup>4</sup> .....	57,453	244,096	56,729	239,997	724	4,099
Seattle <sup>5</sup> .....	78,910	357,369	78,447	354,664	463	2,705
Spokane <sup>6</sup> .....	13,829	60,765	13,674	59,851	155	914
Tacoma <sup>7</sup> .....	17,534	77,270	17,052	72,643	482	4,627

<sup>1</sup>Employment data for administrative offices and auxiliaries on a State basis are not available for the years prior to 1949. Similar data for standard metropolitan areas are available only for 1954.<sup>2</sup>The employment figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period. The employment figures for administrative and auxiliary units were compiled chiefly from Bureau of Old-Age and Survivors Insurance records and are not strictly comparable with the figures for these units that were collected by the Bureau of the Census for the year 1954.<sup>3</sup>The 1951 data are shown for 1952 since auxiliary and administrative unit data were not collected in 1952.<sup>4</sup>The Portland Standard Metropolitan Area consists of Clark County, Washington, and Clackamas, Multnomah and Washington Counties, Oregon.<sup>5</sup>The Seattle Standard Metropolitan Area consists of King County, Washington.<sup>6</sup>The Spokane Standard Metropolitan Area consists of Spokane County, Washington.<sup>7</sup>The Tacoma Standard Metropolitan Area consists of Pierce County, Washington.



Table 2.—GENERAL STATISTICS FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Year	Establish- ments, number	All employees		Production workers		Value added by manufacture (\$1,000)		
		Number	Payroll (\$1,000)	Number	Wages (\$1,000)			
WASHINGTON								
1954 <sup>1</sup>	4,929	192,354	842,660	148,759	594,668	1,549,060		
1953 <sup>2</sup>	}	188,708	814,495	151,903	614,962	1,482,007		
1952 <sup>2</sup>		199,559	806,575	163,783	625,611	1,445,293		
1951 <sup>2</sup>		(NA)	192,081	753,834	159,585	590,253	1,343,983	
1950 <sup>2</sup>		161,047	560,249	133,809	439,206	1,113,362		
1949 <sup>2</sup>		156,399	512,987	129,746	396,433	926,630		
1947	3,409	144,252	437,802	123,442	354,445	874,021		
1939	2,858	99,119	142,565	82,261	108,220	267,716		
1937	3,057	114,268	155,061	101,260	128,472	295,319		
1935	2,840	91,059	106,560	79,589	83,970	201,179		
1933	2,307	(NA)	(NA)	67,752	62,117	160,612		
1931	2,897	(NA)	(NA)	71,014	83,917	195,086		
1929	3,672	128,740	196,575	114,830	160,671	367,149		
1927	3,344	}	(NA)	104,468	145,931	288,029		
1925	3,216			105,893	146,225	286,581		
1923	3,029	(NA)	(NA)	111,663	156,435	306,499		
1921	2,908	}	(NA)	77,518	99,191	188,479		
1919	4,356			144,331	222,482	131,241	192,473	361,907
1914	3,803			75,218	63,150	67,138	51,653	108,605
1909	3,674			76,854	59,593	69,120	49,766	102,859
1904	2,751			48,857	34,180	45,199	30,087	62,656
1899	1,926	33,626	19,129	31,523	17,065	32,554		
PORTLAND STANDARD METROPOLITAN AREA								
1954 <sup>1</sup>	1,787	56,729	239,997	44,840	172,036	475,021		
1947	1,298	51,643	153,747	42,675	119,893	314,273		
1939	943	28,398	38,224	25,017	30,679	79,875		
1929	1,307	38,083	56,783	31,576	42,254	112,605		
1919	1,129	(NA)	(NA)	38,075	54,862	111,892		
SEATTLE STANDARD METROPOLITAN AREA								
1954 <sup>1</sup>	1,447	78,447	354,664	54,931	220,541	520,928		
1947	1,221	54,770	171,221	44,668	129,910	265,422		
1939	1,137	27,734	42,682	23,581	32,971	83,804		
1929	1,342	34,858	56,609	29,167	41,786	107,252		
1919	1,405	(NA)	(NA)	47,474	72,842	141,883		

NA Not available.

<sup>1</sup>The 1954 figures include data for establishments engaged in the processing and distribution of fluid milk, Industry Group 202, Dairy Products. These establishments were not included in the figures for the Annual Survey years 1949-1953 or earlier Census years. In addition, the 1954 Census and Annual Survey years include data for Logging camps and contractors, Industry 2411, which were not included within the scope of the 1947 Census. See footnotes to Table 4 for comparable 1954 and 1947 totals. There were also a number of changes in the definition of manufacturing industries during earlier Census years that affect the comparability of the historical series. Among the more important of these were: figures for 1935 and later years exclude data for "Railroad repair shops" and "Manufactured gas" which were included in 1899-1933 figures; the minimum size of establishment included for 1954 and 1947 was one employee, for 1939-1921 manufacturing establishments reporting value of shipments of \$5,000 or more were within scope whereas for 1919 and earlier years the cutoff was \$500. (This change in procedure has not appreciably affected the comparability of the historical data except for the figures on number of establishments.)

<sup>2</sup>The employment and payroll figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures Volume for this period.

## MANUFACTURES—AREA STATISTICS

Table 3.--GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
Washington, total.....	2,378,963	4,929	192,354	842,660	148,759	280,777	594,668	1,549,060	147,130	( <sup>1</sup> )	( <sup>1</sup> )
STANDARD METROPOLITAN AREAS											
Portland.....	704,829	1,787	56,729	239,997	44,840	85,943	172,036	475,021	27,190	51,643	314,273
Portion in Washington.....	85,307	134	8,431	34,422	7,004	13,650	27,216	88,032	10,190	6,618	52,746
Portion in Oregon.....	619,522	1,653	48,297	205,575	37,835	72,292	144,819	386,989	17,000	45,025	261,527
Seattle.....	732,992	1,447	78,447	354,664	54,931	105,211	220,541	520,928	21,823	54,770	265,422
Spokane.....	221,561	330	13,674	59,851	10,757	21,326	43,888	135,949	5,296	10,852	71,980
Tacoma.....	275,876	432	17,052	72,643	14,090	26,499	55,674	145,873	7,504	16,896	106,426
COUNTIES											
Adams.....	6,584	7	67	258	59	107	231	551	12	47	(D)
Asotin.....	10,878	13	125	470	110	199	389	878	62	65	319
Benton.....	51,370	22	(D)	(D)	(D)	(D)	(D)	(D)	(D)	258	1,281
Chelan.....	39,301	64	2,542	11,054	2,079	4,189	8,731	29,104	979	1,548	7,382
Clallam.....	26,396	120	3,204	15,137	2,871	5,337	13,032	37,592	4,372	1,960	19,249
Clark.....	85,307	134	8,431	34,422	7,004	13,650	27,216	88,032	10,190	6,618	52,746
Columbia.....	4,860	9	204	585	189	324	488	2,072	65	475	(D)
Cowlitz.....	53,369	161	8,934	38,242	7,969	14,507	32,510	99,540	13,460	8,140	69,781
Douglas.....	10,817	6	209	921	181	358	766	1,529	33	12	(D)
Ferry.....	4,096	41	415	1,508	395	701	1,354	3,108	320	120	483
Franklin.....	13,563	17	162	660	96	175	318	908	81	34	193
Garfield.....	3,204	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	125	(D)
Grant.....	24,346	24	318	1,324	274	635	1,152	2,151	674	63	245
Grays Harbor.....	53,644	203	7,590	30,739	6,870	12,011	26,375	51,868	3,865	7,465	48,463
Island.....	11,079	34	132	361	118	183	310	699	56	55	238
Jefferson.....	11,618	34	1,101	4,582	1,027	1,900	4,206	13,964	1,178	607	7,687
King.....	732,992	1,447	78,447	354,664	54,931	105,211	220,541	520,928	21,823	54,770	265,422
Kitsap.....	75,724	81	867	3,329	690	1,154	2,326	5,003	473	753	3,946
Kittitas.....	22,235	55	689	2,560	586	1,073	1,944	4,463	378	589	3,144
Klickitat.....	12,049	86	1,174	4,814	1,027	1,893	4,039	9,338	905	801	5,581
Lewis.....	43,755	223	2,903	11,149	2,550	4,427	9,195	21,015	1,071	2,440	12,365
Lincoln.....	10,970	14	222	895	198	378	771	1,509	44	267	1,211
Mason.....	15,022	80	2,230	8,857	1,950	3,212	7,097	18,812	956	1,273	8,627
Okanogan.....	29,131	52	1,400	5,673	1,294	2,541	4,935	8,139	532	1,057	4,425
Pacific.....	16,558	83	1,379	5,284	1,162	1,930	4,177	7,608	2,907	1,310	8,284
Pend Oreille.....	7,413	27	474	1,879	449	834	1,729	4,947	221	441	1,795
Pierce.....	275,876	432	17,052	72,643	14,090	26,499	55,674	145,873	7,504	16,896	106,426
San Juan.....	3,245	19	113	305	100	166	250	580	37	162	1,288
Skagit.....	43,273	158	3,659	15,099	3,121	5,513	12,194	27,647	2,266	3,002	18,951
Skamania.....	4,788	56	768	3,395	712	1,285	2,862	6,471	504	253	1,793
Snohomish.....	111,580	294	9,279	37,596	8,101	14,614	31,090	78,884	33,947	8,854	71,833
Spokane.....	221,561	330	13,674	59,851	10,757	21,326	43,888	135,949	5,296	10,852	71,980
Stevens.....	18,580	80	696	2,489	616	1,162	2,098	5,677	283	888	4,891
Thurston.....	44,884	104	3,318	14,551	2,798	5,220	11,537	26,744	2,708	2,493	14,908
Wahkiakum.....	3,835	24	384	1,268	340	440	1,087	1,619	271	20	(D)
Walla Walla.....	40,135	44	1,140	4,311	837	1,912	3,002	9,789	358	1,401	10,569
Whatcom.....	66,733	164	4,679	19,122	3,962	7,284	15,281	40,199	26,203	3,566	22,919
Whitman.....	32,469	19	134	475	96	181	290	869	22	106	592
Yakima.....	135,723	165	4,844	18,754	3,889	7,898	13,864	39,781	2,194	4,466	22,226
CITIES WITH 10,000 INHABITANTS OR MORE											
Aberdeen.....	19,653	43	1,962	8,199	1,720	3,127	6,796	12,449	462	2,541	17,675
Bellingham.....	34,112	83	3,237	13,892	2,726	5,100	11,054	31,460	938	2,527	19,276
Bremerton.....	27,678	15	237	1,103	139	268	564	1,919	281	192	967
Everett.....	33,849	78	5,169	21,724	4,504	8,144	18,094	46,628	32,008	3,714	35,660
Hoquiam.....	11,123	28	2,223	9,525	2,042	3,872	8,479	20,364	1,823	2,893	19,272
Kennewick.....	10,106	12	328	(D)	214	(D)	(D)	(D)	(D)	(NA)	(NA)
Longview.....	20,339	40	2,202	8,684	1,876	3,400	7,015	17,003	1,008	257	1,806
Olympia.....	15,819	32	1,786	6,855	1,517	2,803	5,714	11,487	485	1,671	8,555

See footnotes at end of table.

Table 3.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
Pasco.....	10,228	14	149	(D)	87	(D)	(D)	(D)	(D)	(NA)	(NA)
Port Angeles.....	11,233	39	2,257	11,514	1,997	3,974	9,815	31,052	3,744	(NA)	(NA)
Pullman.....	12,022	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Puyallup.....	10,010	12	440	1,496	400	887	1,326	3,607	33	(NA)	(NA)
Renton.....	16,039	21	8,987	42,170	7,390	14,491	30,219	72,312	1,880	(NA)	(NA)
Seattle.....	467,591	1,179	65,150	295,545	43,952	84,250	177,310	417,224	17,207	50,214	242,640
Spokane.....	161,721	264	7,442	30,435	5,308	10,188	19,577	55,162	2,034	6,532	35,953
Tacoma.....	143,673	287	14,357	61,745	11,766	22,147	46,847	123,573	5,850	12,963	83,916
Vancouver.....	41,664	58	3,226	12,075	2,801	5,521	9,731	28,587	1,266	2,419	(D)
Walla Walla.....	24,102	31	987	3,734	714	1,667	2,584	7,898	287	1,159	(D)
Wenatchee.....	13,072	23	457	1,831	309	601	1,096	3,337	141	692	3,351
Yakima.....	38,486	64	2,039	7,874	1,513	2,987	5,191	14,734	712	2,190	9,933

D Withheld to avoid disclosing figures for individual companies.

NA Detail figures are not available, but are included in totals for the area.

<sup>1</sup>The 1947 data are not strictly comparable with the figures shown for 1954 due to differences in coverage of loggers and fluid milk distributors.  
See discussion in Introduction and footnotes to Table 4.



## MANUFACTURES--AREA STATISTICS

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establish- ments, number		All employees		Production workers			Value added by manufacture	Value of shipments	Capital expendi- tures, new	All employees, number	Value added by manufacture
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
	All industries, total <sup>1</sup> ...	4,929	1,152	192,354	842,660	148,759	280,777	594,668	1,549,060	( <sup>2</sup> )	147,130	( <sup>3</sup> )	( <sup>3</sup> )
20	Food and kindred products..	783	286	27,192	104,620	19,452	37,449	65,571	219,645	( <sup>2</sup> )	13,609	( <sup>3</sup> )	( <sup>3</sup> )
201	Meat products.....	116	30	3,472	13,660	2,644	5,217	9,533	22,394	( <sup>2</sup> )	1,116	3,348	17,421
2011	Meat packing, plants.....	63	16	2,477	10,560	1,784	3,668	7,091	16,690	( <sup>2</sup> )	899	2,468	13,092
2013	Prepared meats.....	17	4	277	1,027	192	400	658	2,226	( <sup>2</sup> )	156	526	2,838
2015	Poultry dressing, plants.....	36	10	717	2,073	668	1,148	1,783	3,478	( <sup>2</sup> )	60	354	1,491
202	Dairy products.....	153	58	4,609	19,536	2,244	4,558	8,895	36,608	( <sup>2</sup> )	1,653	( <sup>3</sup> )	( <sup>3</sup> )
2021	Creamery butter.....	20	2	162	542	112	209	353	621	( <sup>2</sup> )	27	( <sup>3</sup> )	( <sup>3</sup> )
2024	Ice cream and ices.....	24	4	284	1,292	182	353	665	3,089	( <sup>2</sup> )	181	( <sup>3</sup> )	( <sup>3</sup> )
2026	Fluid milk.....	15	1	133	510	61	128	221	731	( <sup>2</sup> )	36	( <sup>3</sup> )	( <sup>3</sup> )
2027	Fluid milk and other products..	82	47	3,749	16,167	1,663	3,436	6,812	28,700	( <sup>2</sup> )	1,360	( <sup>3</sup> )	( <sup>3</sup> )
203	Canned and frozen foods.....	189	97	8,269	25,649	7,361	13,897	26,742	58,823	( <sup>2</sup> )	3,993	10,391	47,934
2031	Canned seafood.....	51	24	1,397	3,901	1,233	1,677	2,962	6,954	( <sup>2</sup> )	348	1,707	9,891
2033	Canned fruits and vegetables...	60	29	3,432	11,116	3,077	6,193	9,264	28,256	( <sup>2</sup> )	1,977	5,321	23,633
2034	Dehydrated fruits & vegetables..	9	6	268	836	234	500	650	1,222	( <sup>2</sup> )	84	455	(D)
2036	Packaged seafood.....	15	9	597	2,118	539	1,013	1,718	2,874	( <sup>2</sup> )	97	2,399	10,200
2037	Frozen fruits and vegetables...	34	24	2,212	6,603	1,956	3,961	5,441	16,410	( <sup>2</sup> )	1,013		
204	Grain mill products.....	59	12	2,019	8,644	1,536	3,114	6,274	24,629	( <sup>2</sup> )	1,029	2,366	21,183
2041	Flour and meal.....	24	9	1,254	5,495	975	1,967	4,144	15,545	( <sup>2</sup> )	510	1,575	16,253
2042	Prepared animal feeds.....	31	9	719	2,964	530	1,089	2,041	8,606	( <sup>2</sup> )	498	749	(D)
205	Bakery products.....	125	36	(D)	(D)	(D)	(D)	(D)	(D)	( <sup>2</sup> )	(D)	(D)	(D)
2051	Bread and related products.....	117	31	3,347	14,284	1,914	3,600	6,778	21,289	( <sup>2</sup> )	882	3,339	15,837
207	Candy and related products...	22	9	789	2,305	616	1,049	1,467	4,776	( <sup>2</sup> )	94	(D)	(D)
208	Beverages.....	71	21	2,546	12,558	1,594	2,905	6,810	34,473	( <sup>2</sup> )	3,202	2,159	20,624
2081	Bottled soft drinks.....	53	12	864	3,633	417	660	1,239	7,003	( <sup>2</sup> )	370	628	(D)
209	Miscellaneous foods.....	55	15	(D)	(D)	(D)	(D)	(D)	(D)	( <sup>2</sup> )	(D)	(D)	(D)
2097	Manufactured ice.....	11	4	187	820	122	249	452	1,317	( <sup>2</sup> )	153	391	1,884
2098	Macaroni and spaghetti.....	4	1	101	430	72	142	235	857	( <sup>2</sup> )	95	95	(D)
2099	Food preparations, n.e.c.....	34	8	728	2,276	489	861	1,248	5,739	( <sup>2</sup> )	266	(D)	(D)
22	Textile mill products.....	17	3	594	1,999	536	1,060	1,707	3,203	( <sup>2</sup> )	122	573	2,649
23	Apparel and related prod- ucts.....	131	41	3,694	10,454	3,154	5,829	7,751	19,330	( <sup>2</sup> )	612	2,778	10,583
232	Men's and boys' furnishings...	21	11	1,999	3,172	883	1,630	2,065	5,578	( <sup>2</sup> )	180	957	3,644
233	Women's and misses' outerwear	29	12	1,384	3,098	976	1,756	2,412	7,293	( <sup>2</sup> )	180	624	2,862
238	Miscellaneous apparel.....	8	6	(D)	(D)	(D)	(D)	(D)	(D)	( <sup>2</sup> )	(D)	(D)	(D)
2382	Fabric work gloves.....	3	3	203	440	192	341	372	549	( <sup>2</sup> )	3	163	423
239	Fabricated textiles, n.e.c....	53	8	811	2,417	664	1,243	1,817	3,774	( <sup>2</sup> )	147	637	2,600
2394	Canvas products.....	18	1	120	380	95	174	254	593	( <sup>2</sup> )	16	152	563
2399	Textile products, n.e.c.....	11	1	249	753	209	407	595	1,158	( <sup>2</sup> )	42	(D)	(D)
24	Lumber and wood products...	2,080	372	47,529	191,843	43,329	75,613	165,965	319,660	( <sup>2</sup> )	22,851	( <sup>3</sup> )	( <sup>3</sup> )
2411	Logging camps and contractors	1,119	86	9,116	35,308	8,259	12,943	29,765	65,620	( <sup>2</sup> )	7,736	( <sup>3</sup> )	( <sup>3</sup> )
242	Lumber and basic products...	722	184	24,049	95,013	22,007	38,435	82,262	163,029	( <sup>2</sup> )	12,018	28,857	189,946
2421	Sawmills and planing mills.....	607	154	21,875	86,736	19,998	35,534	75,172	149,409	( <sup>2</sup> )	11,087	26,853	178,457
2423	Shingle mills.....	105	25	1,831	6,930	1,690	2,362	5,942	11,702	( <sup>2</sup> )	840	1,696	10,703
243	Millwork and related products	164	79	12,545	55,079	11,453	21,419	48,600	79,569	( <sup>2</sup> )	2,662	12,388	81,076
2431	Millwork plants.....	110	41	3,496	13,153	3,092	5,447	10,844	17,341	( <sup>2</sup> )	395	5,462	31,351
2432	Plywood plants.....	40	35	8,864	41,015	8,211	15,633	37,123	60,455	( <sup>2</sup> )	2,288	6,508	48,347
2433	Prefabricated wood products....	14	3	184	911	143	282	426	1,772	( <sup>2</sup> )	38	418	1,378
244	Wooden containers.....	25	11	984	3,278	896	1,487	2,773	5,442	( <sup>2</sup> )	248	622	2,306
249	Miscellaneous wood products..	50	12	833	3,264	712	1,328	2,563	5,998	( <sup>2</sup> )	184	1,167	6,130
2491	Wood preserving.....	9	7	335	1,414	281	555	1,118	2,234	( <sup>2</sup> )	26	575	3,727
25	Furniture and fixtures.....	136	25	2,987	11,046	2,626	4,851	8,994	17,712	( <sup>2</sup> )	464	3,194	13,300
251	Household furniture.....	86	20	2,472	9,017	2,178	4,020	7,339	14,615	( <sup>2</sup> )	350	2,746	11,465
2511	Wood furniture, not upholstered	48	9	1,646	5,836	1,469	2,707	4,857	10,047	( <sup>2</sup> )	241	1,529	6,328
2512	Upholstered household furniture	22	7	551	2,180	79	892	1,491	3,060	( <sup>2</sup> )	37	953	3,816
2541	Partitions and fixtures.....	27	1	237	1,013	204	389	851	1,543	( <sup>2</sup> )	93	176	795
26	Pulp, paper and products...	79	64	15,839	73,594	13,671	27,366	60,462	221,281	( <sup>2</sup> )	52,879	12,876	137,670
261	Pulp, paper and board.....	19	40	12,023	58,398	10,369	20,921	47,929	189,808	( <sup>2</sup> )	45,905	10,170	125,827
2611	Pulp mills.....	23	28	7,599	35,399	6,156	12,308	28,776	131,251	( <sup>2</sup> )	18,604	6,288	95,169
267	Paperboard containers.....	12	10	1,342	5,513	1,151	2,264	4,600	13,549	( <sup>2</sup> )	709	(D)	(D)
2671	Paperboard boxes.....	12	10	1,342	5,513	1,151	2,264	4,600	13,549	( <sup>2</sup> )	709	1,306	6,207
269	Pulp, paper and products, etc.....	13	8	1,485	5,986	1,312	2,600	4,994	10,962	( <sup>2</sup> )	(D)	(D)	(D)
27	Printing and publishing....	445	58	7,457	33,701	4,188	7,574	19,340	56,786	( <sup>2</sup> )	2,333	4,473	42,680
2711	Newspapers.....	179	27	5,147	23,415	2,605	4,661	12,405	40,780	( <sup>2</sup> )	1,402	4,147	29,014
2741	Miscellaneous publishing.....	7	2	178	674	59	89	292	982	( <sup>2</sup> )	(D)	95	(D)
2751	Commercial printing.....	142	12	903	3,847	679	1,255	2,812	6,236	( <sup>2</sup> )	308	1,564	7,685
2761	Lithographing.....	46	11	742	3,551	540	1,006	2,430	5,197	( <sup>2</sup> )	463	274	1,861
279	Printing trade services.....	32	5	268	1,406	189	339	966	2,138	( <sup>2</sup> )	46	256	1,615
2793	Photoengraving.....	12	3	126	717	78	145	485	1,025	( <sup>2</sup> )	17	135	972

See footnotes at end of table.

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954										1947	
		Establish- ments, number		All employees		Production workers			Value added by manufacture	Value of shipments	Capital expendi- tures, new	All employees, number	Value added by manufacture
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
28	Chemical and products.....	122	30	11,069	61,425	6,305	12,440	32,209	118,107	( <sup>2</sup> )	3,102	2,086	15,570
281	Inorganic chemicals.....	12	6	9,333	53,897	5,201	10,249	27,967	101,188	( <sup>2</sup> )	1,521	(D)	(D)
2826	Explosives.....	4	3	323	1,504	242	467	1,042	2,581	5,707	216	298	2,522
285	Paints and allied products...	12	5	217	895	133	275	498	1,959	( <sup>2</sup> )	149	327	2,195
287	Fertilizers.....	12	1	133	471	93	180	298	565	( <sup>2</sup> )	513	(D)	(D)
288	Vegetable and animal oils....	17	2	167	786	133	296	519	1,351	( <sup>2</sup> )	85	271	3,120
289	Chemical products, n.e.c.....	33	5	368	1,527	209	417	807	3,358	( <sup>2</sup> )	110	379	3,139
2896	Compressed and liquefied gases.	12	4	217	944	115	266	498	2,157	2,715	91	176	1,119
29	Petroleum and coal products	14	2	205	1,244	153	311	794	2,308	( <sup>2</sup> )	24,695	204	(D)
30	Rubber products.....	10	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
31	Leather and leather goods..	24	6	497	1,333	437	759	1,090	2,444	( <sup>2</sup> )	33	395	1,799
314	Footwear, except rubber.....	5	3	105	386	96	190	336	565	1,002	4	77	(D)
3141	Footwear, except rubber.....	5	3	105	386	96	190	336	565	1,002	4	77	(D)
32	Stone, clay and glass products.....	162	37	3,331	14,084	2,679	5,207	10,435	26,713	( <sup>2</sup> )	4,602	3,320	17,203
325	Structural clay products....	14	10	610	2,445	522	1,046	1,911	4,637	( <sup>2</sup> )	432	631	2,681
327	Concrete and plaster products	106	14	1,278	5,284	965	1,876	3,679	7,682	( <sup>2</sup> )	3,477	1,072	5,103
329	Nonmetallic mineral products, n.e.c.....	16	4	328	1,418	263	522	1,035	3,643	( <sup>2</sup> )	47	500	3,201
33	Primary metal industries...	82	37	12,567	59,466	10,528	21,122	47,687	161,379	( <sup>2</sup> )	9,826	8,622	63,319
331	Blast furnaces and steel mills.....	7	6	2,085	9,578	1,702	3,255	7,360	15,828	( <sup>2</sup> )	1,049	1,722	(D)
332	Iron and steel foundries....	27	15	966	4,194	847	1,518	3,316	6,008	( <sup>2</sup> )	109	1,079	4,717
3321	Gray-iron foundries.....	17	7	487	2,054	440	797	1,735	3,011	4,073	69	824	(D)
3323	Steel foundries.....	10	8	479	2,140	406	721	1,581	2,996	4,098	40	255	(D)
335	Nonferrous rolling and drawing.....	6	3	3,101	15,267	2,704	5,644	12,581	45,657	( <sup>2</sup> )	4,484	(D)	(D)
3361	Nonferrous foundries.....	23	3	201	866	178	320	683	1,248	2,182	31	164	644
34	Fabricated metal products..	233	60	5,494	25,059	4,319	8,307	18,237	44,776	( <sup>2</sup> )	2,562	4,664	26,722
342	Cutlery, tools and hardware..	11	3	539	2,219	418	806	1,543	3,951	( <sup>2</sup> )	128	382	1,703
3429	Hardware, n.e.c.....	5	2	332	1,317	269	535	929	2,991	5,037	(D)	166	(D)
343	Heating and plumbing equip- ment.....	19	6	320	1,415	239	447	998	2,084	( <sup>2</sup> )	18	1,081	6,454
344	Structural metal products....	147	36	2,871	13,587	2,224	4,209	9,809	22,716	( <sup>2</sup> )	752	1,780	9,278
3441	Structural and ornamental work.	56	17	1,121	5,228	845	1,600	3,641	9,435	19,129	212	375	1,766
3442	Metal doors, sash, and trim....	17	5	609	2,737	448	854	1,876	4,288	7,781	225	(D)	(D)
3443	Boiler shop products.....	26	9	633	3,148	516	969	2,350	5,436	9,480	122	722	4,481
3444	Sheet-metal work.....	48	5	507	2,474	414	784	1,941	3,556	7,194	192	471	(D)
346	Metal stamping and coating...	19	4	450	1,884	353	671	1,244	2,812	( <sup>2</sup> )	124	134	(D)
3463	Metal stampings.....	4	3	308	1,283	238	454	801	1,943	3,709	(D)	73	(D)
3468	Plating and polishing.....	11	1	127	557	103	193	405	783	944	31	61	(D)
348	Fabricated wire products.....	13	4	209	830	153	273	510	1,931	3,772	102	201	(D)
3489	Wirework, n.e.c.....	13	4	209	830	153	273	510	1,931	3,772	102	201	(D)
349	Metal products, n.e.c.....	17	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3495	Screw machine products.....	8	1	307	1,413	265	540	1,178	1,996	3,686	(D)	60	(D)
35	Machinery, except electri- cal.....	239	54	5,443	25,991	4,138	8,110	18,080	39,063	( <sup>2</sup> )	2,144	5,240	25,218
352	Tractors and farm machinery..	29	6	355	1,568	271	542	960	2,878	( <sup>2</sup> )	201	434	1,554
353	Construction and mining ma- chinery.....	16	5	910	4,394	719	1,380	3,191	6,380	10,349	536	1,706	8,396
3531	Construction & mining machinery	16	5	910	4,394	719	1,380	3,191	6,380	10,349	536	1,697	(D)
354	Metalworking machinery.....	21	1	548	2,947	392	826	2,145	3,577	( <sup>2</sup> )	232	514	2,139
355	Special-industry machinery, n.e.c.....	33	17	1,390	6,813	1,030	1,987	4,623	10,534	( <sup>2</sup> )	375	1,137	6,333
3554	Paper-industries machinery....	7	6	492	2,419	372	728	1,689	3,685	6,017	73	(D)	(D)
356	General industrial machinery.	29	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3563	Conveyors.....	8	2	216	1,032	130	248	568	1,623	2,719	(D)	113	(D)
359	Miscellaneous machinery parts	108	14	1,126	4,891	913	1,813	3,609	7,288	( <sup>2</sup> )	341	632	2,632
3599	Machine shops.....	92	11	972	4,147	795	1,580	3,099	5,743	9,921	283	542	2,180
36	Electrical machinery.....	34	8	823	3,473	599	1,103	2,246	5,741	( <sup>2</sup> )	205	827	4,594
3621	Electrical appliances.....	11	3	393	1,576	317	567	1,117	2,233	5,152	52	516	(D)
37	Transportation equipment...	122	36	42,986	204,267	28,989	56,813	120,701	258,463	( <sup>2</sup> )	5,987	22,068	76,579
371	Motor vehicles and equipment.	23	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3713	Truck and bus bodies.....	10	3	191	742	168	264	613	924	1,719	10	398	(D)
372	Aircraft and parts.....	10	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3729	Aircraft equipment, n.e.c.....	7	1	245	1,061	191	443	793	1,456	2,660	44	(D)	(D)

See footnotes at end of table.



## MANUFACTURES—AREA STATISTICS

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manufacture	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
38	Instruments and related products.....	32	5	410	1,353	329	636	989	2,933	( <sup>2</sup> )	146	96	(D)
384	Medical equipment and supplies.....	15	2	116	313	94	234	250	871	( <sup>2</sup> )	35	(D)	(D)
39	Miscellaneous manufactures <sup>4</sup>	184	26	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1,417	6,056
394	Toys and sporting goods.....	32	3	216	565	179	309	416	1,123	( <sup>2</sup> )	65	216	670
3949	Sporting and athletic goods.....	27	1	151	419	124	217	312	871	1,502	58	213	(D)
3971	Plastics products, n.e.c.....	19	1	138	483	106	193	342	922	1,707	92	46	(D)
398 399	Miscellaneous manufactures <sup>4</sup> ..	97	17	3,433	14,839	2,688	5,075	10,438	24,437	( <sup>2</sup> )	671	847	3,636
3993	Signs and advertising displays.	57	6	443	1,984	335	622	1,162	3,064	4,569	118	336	1,627

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industries (4-digit) and industry groups (3-digit) are not shown. Industries and industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "all industries" line.<sup>2</sup>The total value of shipments figures for industry groups and a few individual industries have not been published due to the extensive and unmeasurable duplication arising from shipments from one establishment to another in the same industry classification. (See Introduction.)<sup>3</sup>Comparable data are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude establishments in S.I.C. Industry 2411, Logging Camps and Contractors, which are included in the scope of the 1954 Census; the 1947 Census also excludes plants processing and distributing fluid milk which in 1954 were classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	All industries except subgroups 202 and 2411, total.....	178,629	1,446,832	143,237	867,584
20	Food and kindred products except subgroup 202, Dairy products.....	22,583	183,037	25,129	142,467
24	Lumber and wood products except Industry 2411, Logging camps and contractors.....	38,413	254,040	43,034	279,458

<sup>4</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)



Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947  
(For explanation of column captions see Introduction)

Code	Industry group	Establish- ments, number	1954						1947		
			All employees		Production workers			Value added by manufacture	Capital expendi- tures, new	All employees, number	Value added by manufacture
			Number	Payroll (\$1,000)	Number	Man-hours ((1,000)	Wages (\$1,000)				
PORTLAND STANDARD METROPOLITAN AREA (All manufacturing totals for the Portland Standard Metropolitan Area (which includes Clark County in Wash- ington) appear in Table 3. Industry group statistics for this area are shown in the 1954 Census of Manufac- tures report for the State of Oregon.)											
SEATTLE STANDARD METROPOLITAN AREA (Consists of King County, Washington)											
	All industries, total <sup>1</sup> ....	1,447	78,447	354,664	54,931	105,211	220,541	520,928	21,823	<sup>2</sup> 54,770	<sup>2</sup> 265,422
20	Food and kindred products...	224	9,044	37,433	5,726	10,899	20,300	68,656	3,295	(2)	(2)
201	Meat products.....	26	988	4,236	739	1,553	2,887	6,801	497	897	4,391
202	Dairy products.....	41	1,537	7,113	582	1,208	2,677	13,694	493	(2)	(2)
203	Canned and frozen foods.....	45	1,448	4,910	1,251	2,304	3,628	10,036	447	1,778	8,790
204	Grain mill products.....	11	878	3,712	649	1,232	2,562	6,314	84	962	6,182
205	Bakery products.....	46	2,238	9,621	1,310	2,411	4,643	13,842	543	2,396	11,645
207	Candy and related products....	11	435	1,327	324	520	804	2,886	75	557	2,715
208	Beverages.....	18	838	3,921	464	883	1,853	9,253	817	690	6,917
209	Miscellaneous foods.....	26	681	2,590	404	785	1,243	5,826	336	700	4,198
22	Textile mill products.....	12	127	(D)	104	(D)	(D)	(D)	(D)	172	(D)
23	Apparel and related products	88	2,372	7,080	2,016	3,677	5,192	11,406	370	2,293	8,520
232	Men's & boys' furnishings.....	16	570	1,722	460	818	1,123	3,162	192	(D)	(D)
233	Women's & misses' outerwear....	23	607	1,754	538	892	1,324	2,635	22	(D)	(D)
238	Miscellaneous apparel.....	6	143	343	123	206	249	443	8	(D)	(D)
239	Fabricated textiles, n.e.c.....	32	669	2,140	551	1,061	1,596	3,329	134	593	2,524
24	Lumber and wood products....	188	5,021	21,255	4,438	8,159	17,854	32,423	1,882	5,562	37,901
241	Logging camps & contractors....	59	363	1,405	327	543	1,082	3,222	258	(NA)	(NA)
242	Lumber and basic products.....	53	2,635	11,305	2,365	4,187	9,536	17,151	1,296	3,477	23,071
243	Millwork & related products....	51	1,655	7,214	1,429	2,842	6,166	9,717	256	1,569	12,120
244	Wooden containers.....	5	105	391	86	147	293	372	...	173	725
249	Miscellaneous wood products....	20	261	938	229	439	775	1,959	71	343	1,985
25	Furniture and fixtures.....	74	938	3,653	804	1,502	2,839	5,694	143	1,065	4,432
251	Household furniture.....	41	672	2,576	574	1,083	2,004	4,032	122	801	3,346
254	Partitions and fixtures.....	18	115	453	101	188	389	682	6	(D)	(D)
26	Pulp, paper and products....	15	705	2,860	559	1,035	2,115	6,271	294	775	4,859
267	Paperboard containers.....	4	333	1,240	276	480	1,008	3,023	204	(D)	(D)
27	Printing and publishing.....	190	3,632	16,603	2,121	3,753	10,138	27,001	837	3,225	22,830
271	Newspapers.....	41	2,049	9,291	1,047	1,778	5,252	15,874	194	1,542	13,172
274	Miscellaneous publishing.....	4	172	663	59	89	292	949	(D)	(D)	(D)
275	Commercial printing.....	70	485	2,191	362	678	1,582	3,483	152	941	4,681
276	Lithographing.....	29	555	2,689	417	766	1,889	3,876	351	216	1,507
279	Printing trade services.....	16	186	1,038	136	246	719	1,491	30	189	1,252
28	Chemicals and products.....	63	975	4,251	564	1,102	2,129	10,763	1,005	1,032	6,988
282	Organic chemicals.....	6	331	1,710	173	325	711	5,412	429	(D)	(D)
285	Paints and allied products....	9	175	743	110	223	411	1,695	136	(D)	(D)
289	Chemical products, n.e.c.....	21	248	1,028	134	275	551	2,269	59	330	2,847
29	Petroleum and coal products.	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	48	(D)
30	Rubber products.....	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	40	(D)
31	Leather and leather goods...	16	382	995	332	561	770	1,928	27	321	1,440
32	Stone, clay, & glass products.....	59	1,272	5,696	998	1,952	4,026	10,043	3,695	1,071	5,088
325	Structural clay products.....	4	257	1,090	217	457	845	2,078	187	(D)	(D)
327	Concrete & plaster products....	35	442	1,918	335	633	1,302	2,565	3,163	(D)	(D)
33	Primary metal industries....	41	2,304	10,588	1,911	3,607	8,134	17,103	699	2,499	12,943
331	Blast furnaces & steel mills...	4	1,582	7,183	1,291	2,422	5,511	12,243	627	(D)	(D)
332	Iron and steel foundries.....	11	457	2,079	414	775	1,729	2,701	24	541	2,145
336	Nonferrous foundries.....	15	118	581	103	195	450	811	11	(D)	(D)
34	Fabricated metal products...	144	3,884	17,887	3,005	5,694	12,737	32,197	1,996	3,574	21,351
344	Structural metal products.....	79	2,070	9,837	1,580	2,970	6,951	16,690	495	1,175	6,614
346	Metal stamping and coating....	15	438	1,855	344	655	1,221	2,764	120	150	619
348	Fabricated wire products.....	10	196	810	142	252	493	1,882	102	(D)	(D)
349	Metal products, n.e.c.....	15	154	645	105	205	384	904	62	(D)	(D)
35	Machinery, except electrical	127	3,135	15,256	2,386	4,603	10,735	23,793	1,033	3,248	16,860
354	Metalworking machinery.....	14	524	2,849	374	790	2,071	3,407	222	(D)	(D)
355	Special-industry mach., nec....	17	574	2,813	408	796	1,797	4,670	143	614	3,710
356	General industrial machinery...	19	831	4,269	624	1,238	2,925	6,788	398	449	3,065
359	Miscellaneous mach. parts.....	58	438	1,800	368	664	1,425	2,978	114	217	1,095

See footnotes at end of table.

## MANUFACTURES—AREA STATISTICS

Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Code	Industry group	Establishments, number	1954							1947	
			All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
36	Electrical machinery.....	23	777	3,298	563	1,032	2,105	5,424	174	758	4,423
361	Elec. industrial apparatus.....	7	277	1,238	182	353	736	2,634	30	216	1,781
37	Transportation equipment....	58	40,471	193,120	26,782	52,523	111,432	242,981	5,403	20,156	67,097
38	Instruments and related products.....	24	332	1,124	261	512	801	2,162	124	82	352
39	Miscellaneous manufactures <sup>4</sup> .	90	2,961	12,540	2,283	4,262	8,652	21,023	709	731	3,409

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industry groups (3-digit) are not shown. Industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "All industries" line.

<sup>2</sup>The 1954 and 1947 "All industries" totals are not strictly comparable because of differences in scope between the two years in Major group 20 (see footnote 3).

<sup>3</sup>Comparable data for Major group 20 are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude plants processing and distributing fluid milk which in 1954 were classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
20	Food and kindred products except subgroup 202, Dairy Products.....	7,507	54,962	7,980	44,838

<sup>4</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)

Table 6.—GENERAL STATISTICS FOR PRINCIPAL INDUSTRIAL COUNTIES (THOSE WITH 20,000 OR MORE MANUFACTURING EMPLOYEES), BY MAJOR INDUSTRY GROUPS: 1954 AND 1947

(King County is coextensive with the Seattle Standard Metropolitan Area, data for which are shown in Table 5)

## 146 - 11

20 Food and kindred products	26 Pulp, paper and products	32 Stone, clay, and glass products	38 Instruments and related products
21 Tobacco manufactures	27 Printing and publishing	33 Primary metal industries	39 Miscellaneous manufactures (Includes Group 19 Ordnance and accessories)
22 Textile mill products	28 Chemicals and products	34 Fabricated metal products	
23 Apparel and related products	29 Petroleum and coal products	35 Machinery, except electrical	
24 Lumber and wood products	30 Rubber products	36 Electrical machinery	
25 Furniture and fixtures	31 Leather and leather goods	37 Transportation equipment	

(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establish- ments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Washington, total.....	4929	783	...	17	131	2,080	136	79	445	122	14	10	24	162	82	233	239	34	122	32	184
1 to 4 employees.....	2,399	235	...	9	51	1,233	69	10	251	41	4	4	11	75	20	89	100	17	58	21	101
5 to 9 employees.....	793	140	...	2	18	280	28	1	90	29	4	2	2	29	16	43	54	3	14	3	35
10 to 19 employees.....	583	122	...	3	21	194	14	4	46	22	4	2	5	21	9	41	30	6	14	3	22
20 to 49 employees.....	565	130	...	2	23	189	11	11	31	21	1	2	4	17	15	35	34	2	16	3	18
50 to 99 employees.....	288	89	...	...	12	91	7	10	18	3	1	...	1	11	5	14	10	4	8	1	3
100 to 249 employees.....	185	55	...	...	4	53	4	22	4	4	...	...	1	8	7	7	2	3	1	3	...
250 to 499 employees.....	75	10	...	1	2	28	3	11	3	1	...	...	...	1	3	4	4	...	3	...	1
500 to 999 employees.....	29	2	...	...	...	9	...	9	2	...	...	...	...	...	3	...	...	...	4	...	...
1,000 to 2,499 employees.....	7	...	...	...	...	2	...	1	...	...	...	...	...	...	3	...	...	...	...	...	...
2,500 employees and over.....	5	...	...	...	...	1	...	...	...	1	...	...	...	...	1	...	...	...	2	...	...
Adams:																					
1 to 19 employees.....	6	...	...	...	...	1	...	...	3	...	...	...	...	1	...	...	1	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Asotin:																					
1 to 19 employees.....	11	2	...	...	...	7	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Benton:																					
1 to 19 employees.....	15	5	...	...	1	...	...	...	4	...	...	...	...	4	...	...	...	...	...	1	...
20 to 99 employees.....	5	3	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	1	...	...	...	...	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...
Chelan:																					
1 to 19 employees.....	43	10	...	...	2	13	1	1	6	...	...	...	...	2	1	1	5	...	...	...	1
20 to 99 employees.....	17	10	...	...	...	4	...	...	1	...	...	...	...	1	...	...	1	...	...	...	...
100 employees and over.....	4	...	...	...	...	3	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...
Clallam:																					
1 to 19 employees.....	92	5	...	...	...	77	...	...	6	...	...	...	...	1	1	...	2	...	...	...	...
20 to 99 employees.....	22	...	...	...	...	20	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	6	...	...	...	...	2	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...
Clark:																					
1 to 19 employees.....	101	11	...	...	2	52	3	1	10	2	...	...	...	9	...	...	5	...	1	...	5
20 to 99 employees.....	15	2	...	...	...	8	...	3	1	...	...	...	...	...	1	...	...	...	...	...	...
100 employees and over.....	18	3	...	1	1	2	...	5	...	1	...	...	...	1	3	...	1	...	...	...	...
Columbia:																					
1 to 19 employees.....	7	1	...	...	...	5	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Cowlitz:																					
1 to 19 employees.....	132	10	...	...	...	105	1	1	5	1	...	...	...	2	1	2	1	...	2	...	1
20 to 99 employees.....	17	2	...	...	...	10	...	3	1	...	...	...	...	...	...	1	...	...	...	...	...
100 employees and over.....	12	...	...	...	...	5	1	5	...	...	...	...	...	...	1	...	...	...	...	...	...
Douglas:																					
1 to 19 employees.....	4	1	...	...	...	1	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...
Ferry:																					
1 to 19 employees.....	37	1	...	...	...	36	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	4	...	...	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Franklin:																					
1 to 19 employees.....	16	3	...	...	...	...	...	1	...	2	1	...	...	4	...	2	1	...	1	...	1
20 to 99 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Garfield:																					
1 to 19 employees.....	2	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Grant:																					
1 to 19 employees.....	23	5	...	...	...	2	...	...	6	1	...	...	...	5	...	...	2	...	1	...	1
100 employees and over.....	1	1	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
Grays Harbor:																					
1 to 19 employees.....	148	11	...	...	1	120	1	...	6	1	...	...	...	...	...	2	...	1	2	...	3
20 to 99 employees.....	35	9	...	...	...	19	2	...	1	...	1	...	...	...	1	...	1	...	1	...	...
100 employees and over.....	20	...	...	...	...	16	1	2	...	...	...	...	...	...	...	...	...	...	...	...	1
Island:																					
1 to 19 employees.....	33	4	...	...	...	27	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Jefferson:																					
1 to 19 employees.....	25	1	...	...	1	20	1	...	2	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	6	1	...	...	...	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	3	...	...	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...
King:																					
1 to 19 employees.....	1,067	136	...	10	54	148	62	6	162	49	6	4	12	45	27	101	96	15	37	20	77
20 to 99 employees.....	300	65	...	2	30	31	10	7	25	13	...	1	3	10	10	35	24	6	14	3	11
100 employees and over.....	80	23	...	...	4	9	2	2	3	1	...	...	1	4	4	8	7	2	7	1	2
Kitsap:																					
1 to 19 employees.....	74	9	...	...	...	49	1	...	7	...	...	1	...	1	...	2	1	...	1	...	2
20 to 99 employees.....	6	2	...	...	...	2	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...
100 employees and over.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Kittitas:																					
1 to 19 employees.....	47	9	...	...	1	28	...	...	4	1	...	...	...	1	1	...	1	...	...	...	1
20 to 99 employees.....	8	3	...	...	...	4	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Klickitat:																					
1 to 19 employees.....	73	1	...	1	...	65	...	...	3	1	...	...	...	1	...	...	1	...	...	...	...
20 to 99 employees.....	11	...	...	...	...	11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

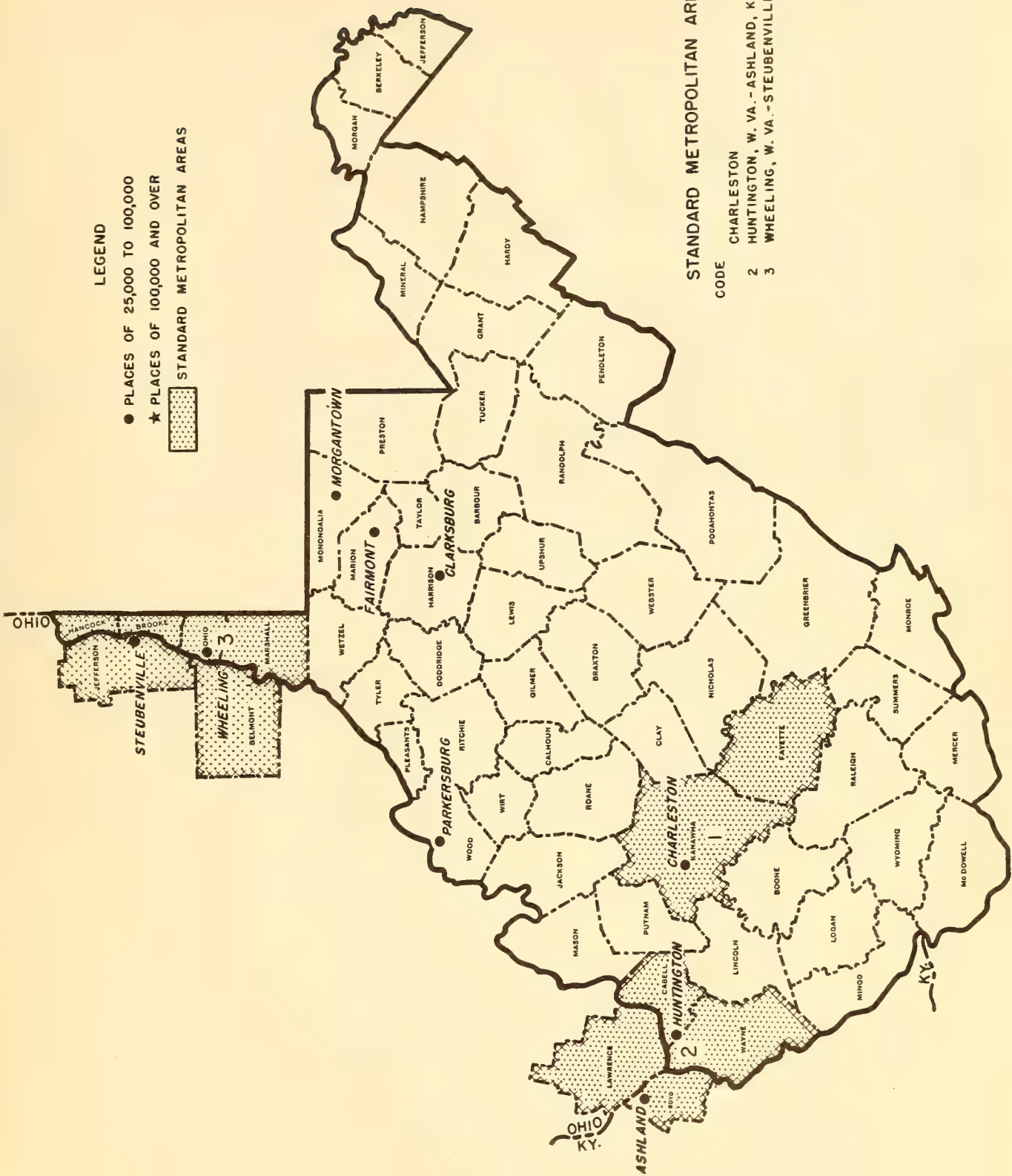


## MANUFACTURES—AREA STATISTICS

Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954—Continued  
(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Lewis:																					
1 to 19 employees.....	188	25	...	...	...	151	...	...	5	...	...	2	1	...	3	1	...	...	...	...	...
20 to 99 employees.....	30	5	...	...	1	20	...	...	1	1	...	...	2	...	...	...	...	...	...	...	...
100 employees and over.....	5	1	...	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Lincoln:																					
1 to 19 employees.....	12	2	...	...	...	5	...	...	4	...	...	...	...	...	...	1	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Mason:																					
1 to 19 employees.....	70	6	...	...	...	61	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	3	1	...	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	7	...	...	...	...	4	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...
Okanogan:																					
1 to 19 employees.....	45	6	...	...	...	29	...	...	4	1	...	...	3	...	...	...	...	...	...	...	2
20 to 99 employees.....	5	2	...	...	...	3	...	...	...	...	...	5	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Pacific:																					
1 to 19 employees.....	69	12	...	...	...	50	1	...	3	...	...	...	...	...	...	1	...	1	...	1	1
20 to 99 employees.....	12	3	...	...	...	9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Pend Oreille:																					
1 to 19 employees.....	23	1	...	...	...	20	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	...	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
Pierce:																					
1 to 19 employees.....	296	36	...	1	10	99	22	3	33	6	2	...	1	8	3	14	12	5	12	2	27
20 to 99 employees.....	95	19	...	...	2	32	5	3	6	5	...	...	1	2	3	4	6	...	4	1	2
100 employees and over.....	41	9	...	...	1	10	3	6	1	3	...	...	...	...	4	1	...	...	2	...	1
San Juan:																					
1 to 19 employees.....	17	2	...	...	...	12	...	...	1	...	...	...	...	...	...	...	...	...	2	...	...
20 to 99 employees.....	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Skagit:																					
1 to 19 employees.....	123	23	...	...	1	73	1	2	6	4	...	...	...	3	1	1	4	1	2	...	1
20 to 99 employees.....	26	10	...	...	...	14	...	...	1	...	...	...	...	...	1	...	...	...	...	...	...
100 employees and over.....	9	4	...	...	...	1	...	1	...	...	...	...	...	1	1	...	1	...	...	...	...
Skamania:																					
1 to 19 employees.....	48	...	...	...	...	45	...	...	1	...	...	...	...	...	...	1	...	1	...	...	...
20 to 99 employees.....	6	...	...	...	...	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Snohomish:																					
1 to 19 employees.....	230	28	...	...	3	139	2	...	13	4	2	...	1	6	1	6	4	2	9	...	10
20 to 99 employees.....	42	12	...	...	...	18	...	...	...	1	...	...	...	3	...	2	1	...	2	...	3
100 employees and over.....	22	...	...	...	...	11	...	7	1	...	...	...	...	...	...	...	1	...	1	...	1
Spokane:																					
1 to 19 employees.....	240	44	...	...	6	42	9	...	37	8	1	2	2	13	4	24	21	2	7	3	15
20 to 99 employees.....	66	17	...	...	2	19	...	1	3	2	...	...	1	5	3	2	5	...	1	...	5
100 employees and over.....	24	10	...	...	...	4	...	2	2	...	...	...	...	1	2	1	1	...	1	...	...
Stevens:																					
1 to 19 employees.....	73	6	...	...	...	63	...	...	2	...	...	...	...	1	...	...	...	...	1	...	...
20 to 99 employees.....	6	...	...	...	...	5	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Thurston:																					
1 to 19 employees.....	83	8	...	...	...	63	1	...	7	...	...	...	...	...	1	...	1	...	1	...	1
20 to 99 employees.....	15	3	...	...	...	7	1	...	1	1	...	...	...	...	...	1	1	...	...	...	...
100 employees and over.....	6	2	...	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Wahkiakum:																					
1 to 19 employees.....	20	...	...	...	...	18	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	3	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Walla Walla:																					
1 to 19 employees.....	31	12	...	...	1	3	...	...	5	1	...	...	...	2	...	3	1	...	1	...	2
20 to 99 employees.....	9	8	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	4	2	...	...	...	...	...	...	1	...	...	...	...	...	...	1	...	...	...	...	...
Whatcom:																					
1 to 19 employees.....	123	19	...	...	3	61	2	...	9	3	...	1	...	3	3	6	9	...	2	...	2
20 to 99 employees.....	30	8	...	...	...	13	...	1	2	...	1	...	...	...	1	2	...	...	2	...	...
100 employees and over.....	11	4	...	...	...	3	...	2	...	...	...	...	...	1	...	...	...	...	1	...	...
Whilman:																					
1 to 19 employees.....	17	2	...	...	...	4	...	...	7	...	...	...	...	1	...	...	2	...	...	1	...
20 to 99 employees.....	2	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
Yakima:																					
1 to 19 employees.....	111	39	...	2	4	13	3	...	13	7	...	...	...	7	1	6	9	...	2	...	5
20 to 99 employees.....	44	30	...	...	...	4	...	1	1	...	...	1	...	3	1	1	2	...	...	...	...
100 employees and over.....	10	6	...	...	...	2	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...

# WEST VIRGINIA (55 COUNTIES)



## LEGEND

● PLACES OF 25,000 TO 100,000

★ PLACES OF 100,000 AND OVER

■ STANDARD METROPOLITAN AREAS

## STANDARD METROPOLITAN AREAS

CODE

CHARLESTON

2 HUNTINGTON, W. VA. - ASHLAND, KY.

3 WHEELING, W. VA. - STEUBENVILLE, OHIO

## MANUFACTURES—AREA STATISTICS

Table 1.—MANUFACTURING EMPLOYMENT AT OPERATING ESTABLISHMENTS AND CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARIES FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS

(This table includes data for all manufacturing employees including those located in central administrative offices and auxiliaries. Tables 2-7 in this report include data for operating establishments only. For explanation of column captions see Introduction)

State, standard metropolitan areas, and year <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	(Number)	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
West Virginia:						
1954.....	122,390	494,893	118,568	472,560	3,822	22,333
1953 <sup>2</sup> .....	133,923	522,965	130,032	502,625	3,891	20,340
1952 <sup>2</sup> .....	134,346	478,112	131,014	462,132	<sup>3</sup> 3,332	<sup>3</sup> 15,980
1951 <sup>2</sup> .....	137,941	467,306	134,609	451,326	3,332	15,980
1950 <sup>2</sup> .....	129,242	396,445	124,420	376,849	4,822	19,596
1949 <sup>2</sup> .....	125,133	363,576	120,550	345,308	4,583	18,268
1954						
Standard metropolitan areas:						
Charleston <sup>4</sup> .....	25,429	128,159	23,427	116,565	2,002	11,594
Huntington-Ashland <sup>5</sup> .....	24,722	100,137	24,178	97,212	544	2,925
Wheeling-Steubenville <sup>6</sup> .....	51,298	215,397	49,687	205,685	1,611	9,712

<sup>1</sup>Employment data for administrative offices and auxiliaries on a State basis are not available for the years prior to 1949. Similar data for standard metropolitan areas are available only for 1954.

<sup>2</sup>The employment figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period. The employment figures for administrative and auxiliary units were compiled chiefly from Bureau of Old-Age and Survivors Insurance records and are not strictly comparable with the figures for these units that were collected by the Bureau of the Census for the year 1954.

<sup>3</sup>The 1951 data are shown for 1952 since auxiliary and administrative unit data were not collected in 1952.

<sup>4</sup>The Charleston Standard Metropolitan Area consists of Fayette and Kanawha Counties, West Virginia.

<sup>5</sup>The Huntington-Ashland Standard Metropolitan Area consists of Cabell and Wayne Counties, West Virginia; Boyd County, Kentucky; and Lawrence County, Ohio.

<sup>6</sup>The Wheeling-Steubenville Standard Metropolitan Area consists of Brooke, Hancock, Marshall, and Ohio Counties, West Virginia; Belmont and Jefferson Counties, Ohio.



Table 2.—GENERAL STATISTICS FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Year	Establish- ments, number	All employees		Production workers		Value added by manufacture (\$1,000)				
		Number	Payroll (\$1,000)	Number	Wages (\$1,000)					
WEST VIRGINIA										
1954 <sup>1</sup> .....	2,027	{	118,568	472,560	97,322	354,666	988,274			
1953 <sup>2</sup> .....			130,032	502,625	108,419	393,764	1,105,374			
1952 <sup>2</sup> .....			131,014	462,132	110,657	361,141	1,009,176			
1951 <sup>2</sup> .....			134,609	451,326	114,761	355,654	1,036,456			
1950 <sup>2</sup> .....			(NA)	124,420	376,849	105,901	299,941	882,401		
1949 <sup>2</sup> .....	1,602	{	120,550	345,308	100,946	267,602	719,921			
1947.....			127,354	337,869	108,985	268,469	663,903			
1939.....			1,094	87,741	113,660	74,411	87,760	213,284		
1937.....			1,057	91,525	120,806	83,464	102,511	222,774		
1935.....			1,027	80,860	91,142	74,180	76,650	167,754		
1933.....	887	{	(NA)	(NA)	{	67,950	60,400	134,375		
1931.....	1,125		(NA)	64,702		73,916	162,866			
1929.....	1,488		93,565	136,291		85,326	115,295	251,615		
1927.....	1,313		{	(NA)		(NA)	{	77,630	103,431	202,332
1925.....	1,395			(NA)		(NA)		80,700	105,892	209,941
1923.....	1,487	{	{	85,661	109,937	220,359				
1921.....	1,550			60,536	78,549	139,547				
1919.....	2,627			90,651	118,898	82,615	101,310	199,568		
1914.....	2,715			76,670	51,308	70,974	43,720	83,334		
1909.....	2,586			68,864	38,710	63,893	33,000	69,072		
1904.....	2,109	46,650	24,052	43,758	21,153	44,621				
1899.....	1,824	34,824	14,159	33,080	12,640	29,779				
WHEELING-STEUBENVILLE STANDARD METROPOLITAN AREA										
1954 <sup>1</sup> .....	385	49,687	205,685	43,603	170,052	404,133				
1947.....	343	51,751	147,020	46,484	125,513	259,509				
1939.....	304	44,001	60,829	41,228	53,969	100,873				
1929.....	416	44,887	73,905	41,066	64,076	129,534				
1919.....	743	(NA)	(NA)	36,464	51,440	101,187				

NA Not available.

<sup>1</sup>The 1954 figures include data for establishments engaged in the processing and distribution of fluid milk, Industry Group 202, Dairy Products. These establishments were not included in the figures for the Annual Survey years 1949-1953 or earlier Census years. In addition, the 1954 Census and Annual Survey years include data for Logging camps and contractors, Industry 2411, which were not included within the scope of the 1947 Census. See footnotes to Table 4 for comparable 1954 and 1947 totals. There were also a number of changes in the definition of manufacturing industries during earlier Census years that affect the comparability of the historical series. Among the more important of these were: figures for 1935 and later years exclude data for "Railroad repair shops" and "Manufactured gas" which were included in 1899-1933 figures; the minimum size of establishment included for 1954 and 1947 was one employee, for 1939-1921 manufacturing establishments reporting value of shipments of \$5,000 or more were within scope whereas for 1919 and earlier years the cutoff was \$500. (This change in procedure has not appreciably affected the comparability of the historical data except for the figures on number of establishments.)

<sup>2</sup>The employment and payroll figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures Volume for this period.

## MANUFACTURES—AREA STATISTICS

Table 3.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
West Virginia, total.....	2,005,552	2,027	118,568	472,560	97,322	185,651	354,666	988,274	98,883	1127,354	1663,903
STANDARD METROPOLITAN AREAS											
Charleston area.....	322,072	219	23,427	116,565	17,655	35,241	81,955	287,894	27,994	25,975	195,386
Huntington-Ashland area.....	245,795	281	24,178	97,212	19,577	37,796	72,211	209,703	29,953	22,187	120,562
Portion in West Va.....	146,731	185	14,624	55,076	11,602	22,112	38,882	109,666	5,645	12,986	59,187
Portion in Kentucky.....	49,949	52	4,993	23,527	4,142	8,112	18,425	48,327	13,271	5,021	31,329
Portion in Ohio.....	49,115	44	4,561	18,609	3,833	7,572	14,904	51,710	11,037	4,180	30,046
Wheeling-Steubenville area...	354,092	385	49,687	205,685	43,603	80,678	170,052	404,133	55,112	51,751	259,509
Portion in West Va.....	169,857	216	33,754	140,406	29,442	54,497	114,498	283,631	42,613	36,968	186,820
Portion in Ohio.....	184,235	169	15,934	65,279	14,160	26,181	55,554	120,501	12,498	14,783	72,689
COUNTIES											
Barbour.....	19,745	27	143	244	130	239	207	442	42	125	314
Berkley.....	30,359	44	3,454	9,697	2,923	5,630	7,420	19,381	1,168	4,188	13,181
Boone.....	33,173	14	105	233	97	185	210	316	8	277	906
Braxton.....	18,082	25	115	196	102	165	153	301	14	(D)	(D)
Brooke.....	26,904	40	4,167	16,818	3,576	6,735	13,386	32,063	4,889	4,674	24,217
Cabell.....	108,035	140	13,793	52,525	10,886	20,798	36,975	105,863	5,402	12,106	56,103
Calhoun.....	10,259	24	67	88	60	86	76	102	15	(D)	(D)
Clay.....	14,961	24	198	346	186	338	327	683	27	232	567
Dodridge.....	9,026	18	120	212	114	184	186	315	15	63	158
Fayette.....	82,443	37	2,205	(D)	1,837	(D)	(D)	(D)	(D)	2,902	17,228
Gilmer.....	9,746	17	59	69	54	75	61	98	29	260	600
Grant.....	8,756	21	156	302	138	268	261	473	68	124	333
Greenbrier.....	39,295	46	987	2,852	877	1,886	2,317	4,178	164	920	3,590
Hampshire.....	12,577	24	215	456	187	317	369	721	43	225	(D)
Hancock.....	34,388	32	16,008	(D)	14,540	(D)	(D)	(D)	(D)	17,580	92,471
Hardy.....	10,032	17	317	769	278	593	629	866	33	208	607
Harrison.....	85,296	84	6,597	26,773	5,622	10,608	22,561	45,423	1,543	7,264	36,335
Jackson.....	15,299	12	107	217	96	169	185	367	10	120	265
Jefferson.....	17,184	21	937	2,890	790	1,626	2,134	3,541	193	798	3,485
Kanawha.....	239,629	182	21,222	107,455	15,818	31,707	74,963	260,482	26,928	23,073	178,158
Lewis.....	21,074	31	1,036	2,404	965	1,578	2,081	3,359	55	1,137	3,778
Lincoln.....	22,466	25	187	279	173	268	245	509	60	48	122
Logan.....	77,391	29	349	881	259	456	524	1,374	175	511	1,858
McDowell.....	98,887	32	478	1,302	352	632	822	2,565	181	498	1,707
Marion.....	71,521	52	4,304	17,272	3,656	7,313	13,741	35,620	1,247	6,686	35,037
Marshall.....	36,893	34	5,828	22,167	5,055	9,227	17,940	43,841	11,102	5,683	29,164
Mason.....	23,537	17	1,087	3,539	899	1,748	2,765	5,611	3,981	602	1,431
Mercer.....	75,013	58	1,550	4,470	1,146	2,291	2,896	6,642	348	1,582	5,892
Mineral.....	22,333	19	335	851	281	541	635	1,390	143	206	489
Mingo.....	47,409	28	416	1,113	303	497	609	1,655	87	427	1,330
Monongalia.....	60,797	60	3,468	11,890	2,612	5,102	8,935	24,223	1,974	2,316	9,281
Monroe.....	13,123	18	56	72	49	73	62	144	8	68	131
Morgan.....	8,276	24	337	733	298	546	565	1,001	77	1,000	3,182
Nicholas.....	27,696	38	746	2,019	641	1,271	1,622	2,546	71	796	2,219
Ohio.....	71,672	110	7,750	30,000	6,270	11,717	22,118	50,091	2,550	9,031	40,968
Pendleton.....	9,313	25	288	572	266	411	489	825	59	271	709
Pleasants.....	6,369	6	752	3,265	590	1,200	2,376	14,322	2,090	206	(D)
Pocahontas.....	12,480	18	750	1,833	707	1,338	1,655	3,125	40	1,091	4,305
Preston.....	31,399	54	564	1,471	519	955	1,301	2,943	142	744	2,436
Putnam.....	21,021	15	2,518	11,191	1,810	3,746	7,437	35,120	2,988	2,493	22,642
Raleigh.....	96,273	52	792	2,592	524	962	1,341	4,672	235	1,098	4,380
Randolph.....	30,558	68	1,039	2,429	884	1,655	1,896	3,083	564	1,053	4,140
Ritchie.....	12,535	27	444	847	420	692	793	1,093	45	336	879
Roane.....	18,408	14	365	908	322	619	689	1,608	70	122	294
Summers.....	19,183	24	138	291	121	282	237	428	28	155	543
Taylor.....	18,422	18	566	1,778	502	940	1,580	3,703	38	763	2,375
Tucker.....	10,600	22	389	838	360	566	722	1,130	78	305	(D)
Tyler.....	10,535	19	606	1,398	564	763	1,194	1,559	63	914	2,737
Upshur.....	19,242	27	316	554	267	447	414	932	352	276	781
Wayne.....	38,696	45	831	2,551	716	1,314	1,907	3,803	243	880	3,084
Webster.....	17,888	24	249	582	232	409	481	755	327	137	476
Wetzel.....	20,154	24	674	6,665	408	703	1,099	3,574	178	868	2,310
Wirt.....	5,119	12	32	34	29	35	30	58	5	(D)	(D)
Wood.....	66,540	81	7,919	30,235	6,416	12,767	22,251	62,924	3,439	9,434	42,277
Wyoming.....	37,540	28	413	849	369	606	723	1,360	84	478	1,823

See footnotes at end of table

Table 3.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
CITIES WITH 10,000 INHAB- ITANTS OR MORE											
Beckley.....	19,397	17	441	1,587	261	523	804	2,758	169	478	2,402
Bluefield <sup>2</sup> .....	21,506	14	530	1,918	313	751	1,013	3,062	156	943	4,070
Charleston.....	73,501	83	3,253	12,766	1,828	3,799	6,718	20,110	1,472	2,426	12,191
Clarksburg.....	32,014	53	5,200	21,361	4,465	8,443	18,276	34,905	690	3,883	17,141
Fairmont.....	29,346	33	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Huntington.....	86,353	139	11,354	(D)	8,972	(D)	(D)	(D)	(D)	9,876	(D)
Martinsburg.....	15,621	26	2,446	5,748	2,094	3,880	4,553	9,009	447	3,484	10,135
Morgantown.....	25,525	36	2,184	6,330	1,833	3,396	5,049	9,241	569	1,475	4,478
Moundsville.....	14,772	12	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Parkersburg.....	29,684	50	3,072	10,602	2,430	4,783	7,514	21,018	647	3,128	14,438
South Charleston.....	16,686	19	7,701	42,606	6,324	13,143	32,088	100,943	8,946	8,212	(D)
Weirton.....	24,005	16	11,057	(D)	9,945	(D)	(D)	(D)	(D)	(NA)	(NA)
Wheeling.....	58,891	102	7,666	29,791	6,202	11,584	21,957	49,668	2,392	(D)	(D)

D Withheld to avoid disclosing figures for individual companies.

NA Separate figures are not available, but are included in the totals for the area.

<sup>1</sup>The 1947 data are not strictly comparable with the figures shown for 1954 due to differences in coverage of loggers and fluid milk distributors.  
See discussion in Introduction and footnotes to Table 4.

<sup>2</sup>The city statistics do not include data for Bluefield town in Tazewell County, Virginia.



## MANUFACTURES—AREA STATISTICS

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947

(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
	All industries, total <sup>1</sup> ...	2,027	517	118,568	472,560	97,322	185,651	354,666	988,274	( <sup>2</sup> )	98,883	<sup>3</sup> 127,354	<sup>3</sup> 663,903
20	Food and kindred products..	314	101	8,302	28,011	4,748	10,364	13,049	51,492	( <sup>2</sup> )	4,082	6,275	31,027
201	Meat products.....	30	12	860	2,426	716	1,544	1,821	4,145	( <sup>2</sup> )	160	671	2,219
2011	Meat packing plants.....	14	5	371	1,249	278	629	861	1,900	( <sup>2</sup> )	111	395	1,471
202	Dairy products.....	78	31	2,563	8,868	1,205	2,800	3,607	19,432	( <sup>2</sup> )	1,513	( <sup>4</sup> )	( <sup>4</sup> )
2024	Ice cream and ices.....	10	5	242	770	162	354	440	2,899	5,791	158	( <sup>4</sup> )	( <sup>4</sup> )
2026	Fluid milk.....	15	1	112	365	62	132	163	381	1,539	92	( <sup>4</sup> )	( <sup>4</sup> )
2027	Fluid milk and other products..	46	24	2,066	7,263	874	2,071	2,659	14,314	35,273	1,164	( <sup>4</sup> )	( <sup>4</sup> )
203	Canned and frozen foods.....	9	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2033	Canned fruits and vegetables...	8	2	490	1,308	434	896	960	2,681	8,078	234	297	(D)
205	Bakery products.....	69	33	2,716	10,431	1,510	3,397	4,692	16,935	( <sup>2</sup> )	854	2,595	13,282
2051	Bread and related products.....	68	33	2,712	10,419	1,506	3,388	4,682	16,902	33,550	850	2,581	(D)
208	Beverages.....	82	17	1,247	3,890	611	1,179	1,407	6,817	( <sup>2</sup> )	1,124	1,286	6,874
209	Miscellaneous foods.....	27	1	176	440	112	226	235	745	( <sup>2</sup> )	104	(D)	(D)
2097	Manufactured ice.....	16	1	105	259	61	144	130	488	634	74	245	925
21	Tobacco manufactures.....	6	4	1,200	3,109	1,059	1,797	2,393	6,912	( <sup>2</sup> )	114	1,072	(D)
22	Textile mill products.....	7	7	2,355	5,894	1,997	3,500	4,410	8,233	( <sup>2</sup> )	302	3,917	14,531
23	Apparel and related products.....	37	24	4,321	9,011	3,969	6,854	7,497	11,316	( <sup>2</sup> )	171	3,800	8,562
232	Men's and boys' furnishings..	6	5	318	484	298	415	412	634	( <sup>2</sup> )	(D)	1,315	2,552
233	Women's and misses' outerwear	14	9	1,824	3,838	1,711	3,034	3,284	4,920	( <sup>2</sup> )	80	1,421	(D)
239	Fabricated textiles, n.e.c....	8	1	237	436	219	283	303	540	( <sup>2</sup> )	9	(D)	(D)
24	Lumber and wood products...	875	77	7,820	16,182	7,167	12,834	13,853	23,160	( <sup>2</sup> )	2,336	( <sup>4</sup> )	( <sup>4</sup> )
2411	Logging camps and contractors	209	4	794	1,190	696	1,072	1,078	1,920	3,179	250	( <sup>4</sup> )	( <sup>4</sup> )
242	Lumber and basic products.....	626	60	6,112	12,687	5,637	10,133	10,852	18,113	( <sup>2</sup> )	1,926	6,955	19,708
2421	Sawmills and planing mills.....	614	56	5,834	12,088	5,384	9,723	10,367	17,304	32,042	1,878	6,664	18,697
243	Millwork and related products	13	3	261	699	230	482	590	926	( <sup>2</sup> )	62	178	510
244	Wooden containers.....	9	3	154	474	142	290	353	726	( <sup>2</sup> )	(D)	(D)	(D)
249	Miscellaneous wood products..	18	7	497	1,131	462	854	977	1,473	( <sup>2</sup> )	(D)	(D)	(D)
25	Furniture and fixtures.....	37	15	1,056	2,915	869	1,588	2,130	4,357	( <sup>2</sup> )	69	884	3,100
251	Household furniture.....	24	11	912	2,402	753	1,355	1,759	3,283	( <sup>2</sup> )	56	769	2,819
2511	Wood furniture, not upholstered	6	5	496	1,304	409	721	950	1,860	2,868	(D)	145	(D)
2512	Upholstered household furniture	9	4	280	753	253	469	623	943	1,915	22	(D)	(D)
26	Pulp, paper and products...	22	16	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1,565	7,926
261	Pulp, paper and board.....	4	4	256	884	227	498	731	1,216	3,425	62	(D)	(D)
2612	Paper and paper board mills....	4	4	256	884	227	498	731	1,216	3,425	62	(D)	(D)
2661	Paper bags.....	4	4	562	1,934	487	1,057	1,537	3,882	10,112	36	613	(D)
267	Paperboard containers.....	12	7	687	2,246	601	1,191	1,767	3,764	10,902	116	734	3,266
2671	Paperboard boxes.....	12	7	687	2,246	601	1,191	1,767	3,764	10,902	116	734	3,266
27	Printing and publishing....	192	27	3,299	12,119	1,881	3,679	6,964	19,330	( <sup>2</sup> )	1,049	3,008	13,939
2711	Newspapers.....	95	17	2,517	9,173	1,280	2,453	4,836	15,075	20,934	846	2,137	10,753
2751	Commercial printing.....	74	6	549	1,880	417	819	1,347	2,734	4,090	107	760	2,691
2761	Lithographing.....	9	3	139	662	112	261	506	995	1,528	60	75	(D)
28	Chemicals and products.....	61	29	21,570	111,208	15,798	32,075	75,953	316,922	( <sup>2</sup> )	43,722	20,631	175,898
281	Inorganic chemicals.....	9	6	3,375	16,235	2,274	4,907	11,070	40,708	( <sup>2</sup> )	10,736	1,801	15,300
282	Organic chemicals.....	20	17	17,650	93,163	13,104	26,421	63,711	271,693	( <sup>2</sup> )	32,878	18,247	157,193
2822	Intermediates & organic colors.	4	3	1,264	5,385	979	1,865	3,775	17,364	32,165	4,179	13,074	(D)
2829	Organic chemicals, n.e.c.....	7	6	12,590	70,545	9,253	18,684	48,079	196,218	397,962	23,623		
285	Paints and allied products...	5	2	121	460	90	176	322	1,530	( <sup>2</sup> )	29	(D)	(D)
289	Chemical products, n.e.c.....	13	2	151	565	99	207	319	1,414	( <sup>2</sup> )	57	245	1,178
29	Petroleum and coal products	24	13	2,506	11,758	2,235	4,367	9,808	29,207	( <sup>2</sup> )	5,105	2,393	18,614
2911	Petroleum refining.....	3	3	414	2,067	354	742	1,692	3,524	17,986	663	607	(D)
293	Coke and byproducts.....	8	6	1,829	8,648	1,671	3,234	7,313	22,823	( <sup>2</sup> )	4,389	1,593	11,216
295	Paving and roofing materials.	10	1	139	565	95	212	374	1,323	( <sup>2</sup> )	(D)	106	896
299	Petroleum and coal products, n.e.c.....	3	3	123	477	114	178	428	1,537	5,899	(D)	(D)	(D)
2999	Petroleum & coal products, nec.	3	3	123	477	114	178	428	1,537	5,899	(D)	...	...
30	Rubber products.....	4	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	140	321
31	Leather and leather goods..	8	6	933	2,513	882	1,672	2,277	4,164	( <sup>2</sup> )	55	1,759	7,492
3111	Leather tanning and finishing	4	4	542	1,537	509	958	1,365	2,512	8,665	46	1,136	6,126
32	Stone, clay and glass products.....	184	83	23,824	87,559	21,606	38,593	75,031	141,346	( <sup>2</sup> )	4,357	30,270	134,629
3211	Flat glass.....	6	5	3,617	18,672	3,187	6,125	16,693	30,013	44,841	815	(D)	(D)
322	Pressed and blown glassware..	44	35	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3221	Glass containers.....	9	8	5,173	21,573	4,628	9,279	18,515	42,388	74,029	1,075	5,258	38,323
3231	Products of purchased glass..	19	4	392	1,092	357	583	850	1,651	3,034	39	518	1,399

See footnotes at end of table.

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
325	Stone, clay, and glass products—Continued	18	10	1,411	5,147	1,262	2,568	4,223	7,220	(2)	255	1,615	6,948
3251	Structural clay products.....	12	6	432	1,503	353	727	1,135	2,047	2,909	74	519	1,950
326	Pottery and related products.....	20	13	5,464	15,377	5,161	7,604	12,801	17,887	(2)	118	(D)	(D)
3269	Pottery products, n.e.c.....	7	2	170	345	154	278	285	473	662	...	220	534
327	Concrete and plaster products.....	64	10	820	2,433	653	1,218	1,721	3,943	(2)	526	1,005	4,211
3271	Concrete products.....	57	8	668	1,914	527	953	1,305	3,111	6,236	494	739	2,633
329	Nonmetallic mineral products, n.e.c.....	10	4	223	710	198	374	622	1,641	(2)	144	474	2,497
33	Primary metal industries...	30	21	20,057	98,118	17,476	34,261	81,311	219,439	(2)	32,085	21,731	123,665
331	Blast furnaces & steel mills.	8	8	15,591	76,738	13,789	27,138	65,129	178,225	(2)	27,834	17,432	100,696
332	Iron and steel foundries.....	13	7	1,500	6,079	1,347	2,472	5,186	9,460	(2)	441	1,558	6,289
34	Fabricated metal products..	71	40	8,543	31,584	7,270	13,695	24,726	54,569	(2)	2,663	10,557	46,085
342	Cutlery, tools and hardware..	8	7	1,708	6,220	1,498	2,834	5,150	10,857	(2)	270	(D)	(D)
343	Heating & plumbing equipment.	5	4	1,069	3,430	907	1,856	2,804	5,646	(2)	258	808	3,533
344	Structural metal products....	30	8	1,648	7,170	1,292	2,523	5,104	10,405	(2)	503	2,654	14,183
3441	Structural and ornamental work.	14	4	579	2,669	433	879	1,578	4,230	9,264	227	1,214	(D)
3444	Sheet-metal work.....	11	2	976	4,158	793	1,519	3,301	5,786	14,129	(D)	(D)	(D)
346	Metal stamping and coating...	14	11	2,516	8,739	2,182	3,944	7,068	14,038	(2)	1,166	3,486	13,840
3463	Metal stampings.....	9	7	1,751	6,496	1,539	2,858	5,359	10,344	21,491	1,079	2,030	(D)
349	Metal products, n.e.c.....	5	3	611	2,143	561	984	1,678	3,406	(2)	269	(D)	(D)
35	Machinery, except electrical.....	87	31	3,740	19,845	2,848	5,731	10,070	24,367	(2)	919	3,170	14,996
353	Construction and mining machinery.....	23	12	1,754	11,834	1,226	2,360	4,097	10,814	(2)	406	1,646	8,063
356	General industrial machinery.	7	3	175	682	120	225	361	1,483	(2)	64	102	290
359	Miscellaneous machinery parts	45	11	1,122	4,907	943	2,074	3,740	8,348	(2)	161	633	2,754
3591	Valves and fittings, exc. plbg.	3	2	154	540	131	306	405	1,135	2,543	(D)	(D)	(D)
3599	Machine shops.....	36	7	427	1,816	339	745	1,250	2,235	3,070	101	114	(D)
36	Electrical machinery.....	17	11	4,318	15,302	3,440	6,552	11,260	41,921	(2)	852	4,675	24,517
361	Electrical industrial apparatus.....	6	4	1,207	5,120	1,034	2,000	4,157	14,481	(2)	436	(D)	(D)
37	Transportation equipment...	11	3	1,365	6,087	1,085	2,152	4,723	13,647	(2)	554	(D)	(D)
38	Instruments and related products.....	11	3	297	1,022	235	444	621	1,608	(2)	37	80	296
39	Miscellaneous manufactures <sup>5</sup>	29	4	1,222	4,228	1,137	2,258	3,808	5,810	(2)	121	1,418	3,759

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industries (4-digit) and industry groups (3-digit) are not shown. Industries and industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "all industries" line.

<sup>2</sup>The total value of shipments figures for industry groups and a few individual industries have not been published due to the extensive and unmeasurable duplication arising from shipments from one establishment to another in the same industry classification. (See Introduction.)

<sup>3</sup>The 1954 and 1947 "all industries" totals are not strictly comparable because of differences in scope between the two years in major groups 20 and 24 (see footnote 4).

<sup>4</sup>Comparable data for Major groups 20 and 24 are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude establishments in S.I.C. Industry 2411, Logging Camps and Contractors, which are included in the scope of the 1954 Census; the 1947 Census also excludes plants processing and distributing fluid milk which in 1954 were classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
20	Food and kindred products except subgroup 202, Dairy products.....	5,739	32,060	5,815	26,541
24	Lumber and wood products except Industry 2411, Logging camps and contractors.....	7,026	21,240	7,979	22,497

<sup>5</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)



## MANUFACTURES—AREA STATISTICS

Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947  
(For explanation of column captions see Introduction)

Code	Industry group	Establishments, number	1954						1947		
			All employees		Production workers			Value added by manufacture	Capital expenditures, new	All employees, number	Value added by manufacture
			Number	Payroll (\$1,000)	Number	Man-hours ((1,000))	Wages (\$1,000)				
WHEELING-STEUBENVILLE STANDARD METROPOLITAN AREA (Consists of Brooke, Hancock, Marshall, and Ohio Counties, West Virginia; Belmont and Jefferson Counties, Ohio)											
	All industries, total...	385	49,687	205,685	43,603	80,678	170,052	404,133	55,112	251,751	2259,509
20	Food and kindred products..	97	2,078	7,478	1,153	2,401	3,457	12,683	2,058	(3)	(3)
201	Meat packing plants.....	14	227	846	166	371	578	1,135	53	309	883
202	Dairy products.....	32	845	2,945	487	1,127	1,503	5,708	529	(3)	(3)
205	Bakery products.....	24	766	2,930	381	696	1,124	4,567	1,370	(D)	(D)
208	Beverages.....	18	197	663	91	155	199	1,096	48	288	1,098
21	Tobacco manufactures.....	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	961	(D)
22	Textile mill products.....	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
23	Apparel & related products.	12	656	1,364	625	1,000	1,217	1,780	30	402	783
24	Lumber & wood products.....	28	169	469	157	284	417	853	42	379	1,815
25	Furniture & fixtures.....	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	26	(D)
26	Pulp, paper and products...	16	1,103	3,878	958	1,992	3,095	7,112	303	1,239	8,466
266	Paper bags.....	4	562	1,934	487	1,057	1,537	3,882	36	(D)	(D)
267	Paperboard containers.....	4	186	512	159	344	406	789	33	(D)	(D)
27	Printing and publishing....	42	788	2,918	479	906	1,791	5,122	234	697	3,481
271	Newspapers.....	15	625	2,344	348	613	1,328	4,056	162	479	2,645
28	Chemicals & products.....	15	1,629	7,059	1,211	2,364	4,837	18,857	11,316	942	8,939
29	Petroleum & coal products..	3	1,411	(D)	1,283	(D)	(D)	(D)	(D)	984	(D)
30	Rubber products.....	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
31	Leather & leather goods....	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
32	Stone, clay, & glass prod....	52	7,988	23,485	7,344	11,624	19,785	32,330	689	10,168	35,603
322	Pressed and blown glassware...	6	1,627	4,009	1,438	2,305	3,857	6,798	158	(D)	(D)
325	Structural clay products.....	12	1,439	5,388	1,324	2,582	4,539	7,830	295	1,669	7,620
326	Pottery & related products....	14	4,519	12,608	4,288	6,146	10,338	15,078	90	6,136	18,408
33	Primary metal industries...	22	23,527	113,366	21,358	40,735	98,183	235,992	33,235	22,946	129,400
331	Blast furnaces & steel mills..	11	22,180	107,694	20,153	38,596	93,467	226,968	32,955	(D)	(D)
34	Fabricated metal products..	39	6,291	24,034	5,476	9,935	19,494	40,604	2,019	8,576	39,125
342	Cutlery, tools, and hardware...	3	302	1,060	254	470	797	1,684	46	(D)	(D)
346	Metal stamping and coating....	14	3,462	12,759	3,061	5,497	10,684	19,224	1,298	4,434	18,167
35	Machinery, exc. electrical.	25	1,191	5,389	1,018	2,125	4,221	10,605	319	937	4,576
353	Construction & mining mach....	3	132	423	98	176	268	406	3	(D)	(D)
359	Miscellaneous mach. parts....	14	895	4,347	779	1,673	3,428	8,446	243	(D)	(D)
36	Electrical machinery.....	4	477	(D)	461	(D)	(D)	(D)	(D)	465	(D)
38	Instruments & related prod....	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
39	Miscellaneous manufactures <sup>4</sup> ...	13	1,198	4,342	1,140	2,326	4,077	6,289	143	976	(D)

Note: Detailed figures may not add to the totals because of independent rounding.

D. Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industry groups (3-digit) are not shown. Industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "All industries" line.<sup>2</sup>The 1954 and 1947 "All industries" totals are not strictly comparable because of differences in scope between the two years in Major group 20 (see footnote 3).<sup>3</sup>Comparable data for Major group 20 are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude plants processing and distributing fluid milk which in 1954 were classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Industry	1954		1947	
	All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
20 Food and kindred products except Sub-group 202, Dairy Products.....	1,233	6,975	1,391	5,411

<sup>4</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)



Table 6.—GENERAL STATISTICS FOR PRINCIPAL INDUSTRIAL COUNTIES, BY MAJOR INDUSTRY GROUP: 1954 AND 1947

(Principal industrial counties include all counties with 20,000 or more manufacturing employees. For explanation of column captions see Introduction)

Code	Major industry group	1954								1947	
		Establish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendit- ures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
		KANAWHA COUNTY									
	All industries, total <sup>1</sup> .....	181	21,201	107,415	15,799	31,669	74,927	260,417	26,919	<sup>2</sup> 23,073	<sup>2</sup> 178,158
20	Food and kindred products.....	40	1,595	5,718	719	1,674	2,279	9,345	1,340	1,017	5,092
32	Stone, clay, & glass products..	15	3,102	14,494	2,703	5,171	12,299	26,769	914	4,103	24,417
34	Fabricated metal products.....	7	1,072	4,373	902	1,658	3,267	7,087	173	2,004	(D)

D Withheld to avoid disclosing data for individual companies.

<sup>1</sup>In order to avoid disclosing data for individual companies, the statistics for some industry groups are not shown. Industry groups reporting less than 100 employees are also omitted. They are included, however, in the "All industries" line.<sup>2</sup>The 1954 and 1947 "All industries" totals are not strictly comparable because of differences in coverage of loggers and fluid milk distributors. See discussion in Introduction and footnote to Table 4 for comparable figures at the State level.

## MANUFACTURES—AREA STATISTICS

Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954

20 Food and kindred products	26 Pulp, paper and products	32 Stone, clay, and glass products	38 Instruments and related products
21 Tobacco manufactures	27 Printing and publishing	33 Primary metal industries	39 Miscellaneous manufactures (includes Group 19 Ordnance and accessories)
22 Textile mill products	28 Chemicals and products	34 Fabricated metal products	
23 Apparel and related products	29 Petroleum and coal products	35 Machinery, except electrical	
24 Lumber and wood products	30 Rubber products	36 Electrical machinery	
25 Furniture and fixtures	31 Leather and leather goods	37 Transportation equipment	

(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
West Virginia, total.....	2,027	314	6	7	37	875	37	22	192	61	24	4	8	184	30	71	87	17	11	11	29
1 to 4 employees.....	907	93	1	...	6	544	14	3	106	17	5	2	2	39	1	14	29	6	4	7	14
5 to 9 employees.....	349	53	1	...	3	176	1	...	37	8	4	...	...	32	3	10	14	...	1	1	5
10 to 19 employees.....	253	67	...	...	4	78	7	3	22	7	2	...	...	30	4	7	13	...	3	...	6
20 to 49 employees.....	200	50	...	...	3	52	9	5	15	6	3	...	1	19	6	14	13	3	...	1	...
50 to 99 employees.....	125	33	1	1	8	18	4	6	3	4	3	1	1	21	1	6	9	1	...	1	3
100 to 249 employees.....	98	16	1	4	7	5	2	5	6	3	5	1	3	23	3	6	4	2	1	1	...
250 to 499 employees.....	50	2	2	1	4	2	...	...	3	5	...	...	1	9	5	8	5	2	1	...	...
500 to 999 employees.....	25	...	...	...	2	...	...	...	...	5	2	...	...	4	3	6	...	1	1	...	1
1,000 to 2,499 employees.....	17	...	...	1	...	...	...	...	...	4	...	...	...	7	3	...	...	2	...	...	...
2,500 employees and over.....	3	...	...	...	...	...	...	...	...	2	...	...	...	...	1	...	...	...	...	...	...
Barbour:																					
1 to 19 employees.....	26	3	...	...	...	21	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Berkeley:																					
1 to 19 employees.....	27	7	...	...	...	10	...	1	4	1	...	...	...	3	...	1	...	...	...	...	...
20 to 99 employees.....	10	3	...	...	...	1	3	...	1	...	...	...	...	1	...	...	...	1	...	...	...
100 employees and over.....	7	2	...	1	2	...	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...
Boone:																					
1 to 19 employees.....	13	1	...	...	...	9	...	...	2	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Braxton:																					
1 to 19 employees.....	24	1	...	...	...	18	...	...	3	...	...	...	...	1	...	...	1	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Brooke:																					
1 to 19 employees.....	17	3	...	...	...	3	...	1	4	...	...	...	...	1	...	3	2	...	...	...	...
20 to 99 employees.....	14	...	...	...	...	...	3	5	1	...	...	...	...	3	...	2	...	...	...	...	...
100 employees and over.....	9	...	...	...	...	...	...	2	...	1	1	...	...	...	2	3	...	...	...	...	...
Cabell:																					
1 to 19 employees.....	84	15	...	...	3	4	8	1	11	6	...	1	...	10	2	7	5	1	4	1	5
20 to 99 employees.....	30	9	...	...	2	1	2	...	1	...	...	...	...	4	...	5	4	1	...	1	...
100 employees and over.....	26	3	1	...	3	1	2	...	1	1	...	1	1	4	2	1	...	2	2	1	...
Calhoun:																					
1 to 19 employees.....	24	1	...	...	...	20	...	...	2	...	...	...	...	...	...	...	...	...	...	1	...
Calhoun:																					
1 to 19 employees.....	22	...	...	...	...	20	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Doddridge:																					
1 to 19 employees.....	16	1	...	...	...	14	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	2	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Fayette:																					
1 to 19 employees.....	27	1	...	...	...	18	...	...	5	...	1	...	...	2	...	...	...	...	...	...	...
20 to 99 employees.....	9	1	...	...	...	4	...	...	...	...	1	...	...	1	...	2	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...
Gilmer:																					
1 to 19 employees.....	17	...	...	...	...	16	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Grant:																					
1 to 19 employees.....	19	2	...	...	...	13	...	...	1	1	...	...	...	2	...	...	...	...	...	...	...
20 to 99 employees.....	2	1	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
Greenbrier:																					
1 to 19 employees.....	40	1	...	...	...	33	...	...	2	...	1	...	...	2	...	1	...	...	...	...	...
20 to 99 employees.....	4	2	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
100 employees and over.....	2	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hampshire:																					
1 to 19 employees.....	22	2	...	...	...	18	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hancock:																					
1 to 19 employees.....	14	2	...	...	...	...	...	...	4	...	...	1	...	6	...	...	...	...	...	...	1
20 to 99 employees.....	7	1	...	...	...	...	...	1	1	...	1	...	...	1	...	2	...	...	...	...	...
100 employees and over.....	11	1	...	...	...	...	...	...	...	...	1	...	...	5	2	2	...	...	...	...	...
Hardy:																					
1 to 19 employees.....	14	2	...	...	...	10	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	2	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Harrison:																					
1 to 19 employees.....	53	13	...	...	...	14	1	...	10	1	1	...	...	2	1	3	3	2	...	...	2
20 to 99 employees.....	20	6	...	...	...	2	...	1	...	...	...	...	...	4	1	2	2	...	...	...	2
100 employees and over.....	11	1	...	...	1	...	...	...	1	...	...	...	...	6	1	...	1	...	...	...	...
Jackson:																					
1 to 19 employees.....	11	2	...	...	...	5	...	...	2	...	1	...	...	...	...	...	...	...	...	...	1
20 to 99 employees.....	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Jefferson:																					
1 to 19 employees.....	12	4	...	...	...	3	...	...	1	1	...	...	...	2	...	...	1	...	...	...	...
20 to 99 employees.....	6	...	...	1	1	...	...	...	...	1	...	...	...	3	...	...	...	...	...	...	...
100 employees and over.....	3	...	...	...	...	...	...	1	...	...	...	...	...	...	...	2	...	...	...	...	...
Kanawha:																					
1 to 19 employees.....	130	24	...	...	4	20	5	...	25	9	2	...	1	8	3	3	12	3	1	3	7
20 to 99 employees.....	33	13	...	...	...	4	...	...	5	3	1	...	...	5	...	2	...	...	...	...	...
100 employees and over.....	19	3	...	...	...	...	...	...	2	5	2	...	...	2	...	3	2	...	...	...	...

Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954—Continued  
(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Lewis:																					
1 to 19 employees.....	24	3	...	...	...	14	...	1	2	...	...	...	...	4	...	...	...	...	...	...	...
20 to 99 employees.....	4	1	...	...	...	1	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...
100 employees and over.....	3	...	...	...	...	...	...	...	...	...	...	...	...	3	...	...	...	...	...	...	...
Lincoln:																					
1 to 19 employees.....	23	...	...	...	...	21	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	2	...	...	...	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Logan:																					
1 to 19 employees.....	22	6	...	...	...	11	...	...	2	...	...	...	...	2	...	1	...	...	...	...	...
20 to 99 employees.....	7	3	...	...	...	2	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...
McDowell:																					
1 to 19 employees.....	26	...	...	...	...	20	...	...	2	...	...	...	...	2	...	...	2	...	...	...	...
20 to 99 employees.....	6	2	...	...	...	2	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...
Marion:																					
1 to 19 employees.....	38	9	...	...	...	9	...	...	5	...	1	...	...	5	...	1	6	...	1	1	...
20 to 99 employees.....	5	2	...	...	...	...	...	...	...	1	...	...	...	...	1	...	1	...	...	...	...
100 employees and over.....	9	...	...	...	...	...	...	1	1	...	1	...	...	3	1	...	1	1	...	...	...
Marshall:																					
1 to 19 employees.....	16	3	1	...	...	6	...	1	3	...	...	...	...	1	...	1	...	...	...	...	...
20 to 99 employees.....	11	3	...	...	2	...	...	...	...	1	...	...	1	1	1	...	2	...	...	...	...
100 employees and over.....	7	...	...	...	...	...	...	...	...	2	...	...	...	1	1	1	...	1	...	...	1
Mason:																					
1 to 19 employees.....	9	1	...	...	...	4	1	...	1	...	...	...	...	1	...	1	...	...	...	...	...
20 to 99 employees.....	5	1	...	...	1	...	1	...	...	1	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	3	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	1	1	...	...
Mercer:																					
1 to 19 employees.....	47	9	...	...	...	25	1	...	6	1	...	...	...	3	...	...	1	...	...	...	1
20 to 99 employees.....	7	4	...	...	...	1	1	...	...	...	...	...	...	...	...	...	1	...	...	...	...
100 employees and over.....	4	2	...	...	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Mineral:																					
1 to 19 employees.....	16	5	...	...	...	6	...	...	3	...	...	...	...	1	...	...	1	...	...	...	...
20 to 99 employees.....	2	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
100 employees and over.....	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Mingo:																					
1 to 19 employees.....	18	3	...	...	...	12	...	...	1	...	...	...	...	1	...	...	1	...	...	...	...
20 to 99 employees.....	10	2	...	...	...	5	...	...	1	...	...	...	...	...	...	...	2	...	...	...	...
Monongalia:																					
1 to 19 employees.....	40	5	...	...	1	14	...	...	3	...	1	...	...	12	...	2	2	...	...	...	...
20 to 99 employees.....	9	5	...	...	1	...	...	...	1	...	...	...	...	2	...	...	...	...	...	...	...
100 employees and over.....	11	...	...	...	2	...	...	...	...	1	1	...	...	5	...	2	...	...	...	...	...
Monroe:																					
1 to 19 employees.....	18	1	...	...	...	16	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Morgan:																					
1 to 19 employees.....	22	7	...	...	...	13	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
100 employees and over.....	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Nicholas:																					
1 to 19 employees.....	32	4	...	...	...	21	...	...	3	2	1	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	4	...	...	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Ohio:																					
1 to 19 employees.....	71	25	1	...	4	3	1	...	10	2	...	...	1	3	1	3	11	...	...	2	4
20 to 99 employees.....	22	9	1	...	...	...	...	2	1	2	...	...	...	1	2	3	1	...	...	...	...
100 employees and over.....	17	2	2	1	...	...	...	...	1	1	...	...	...	1	3	5	1	...	...	...	...
Pendleton:																					
1 to 19 employees.....	21	1	...	...	...	19	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	4	...	...	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Pleasants:																					
1 to 19 employees.....	3	...	...	...	...	1	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...
Pocahontas:																					
1 to 19 employees.....	12	2	...	...	...	8	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	3	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	3	...	...	...	...	1	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...
Preston:																					
1 to 19 employees.....	50	2	...	...	...	44	...	...	1	...	1	...	...	1	...	...	1	...	...	...	...
20 to 99 employees.....	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	1	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Putnam:																					
1 to 19 employees.....	10	...	...	...	...	3	...	...	1	3	...	...	...	1	...	2	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	4	...	...	...	1	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...
Raleigh:																					
1 to 19 employees.....	45	7	...	...	...	27	1	...	...	...	...	...	...	7	...	...	...	...	1	...	2
20 to 99 employees.....	5	3	...	...	...	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Randolph:																					
1 to 19 employees.....	55	6	...	...	...	43	...	...	3	...	...	...	...	2	...	...	1	...	...	...	...
20 to 99 employees.....	11	1	...	...	...	9	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...
100 employees and over.....	2	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Ritchie:																					
1 to 19 employees.....	22	2	...	...	...	15	...	...	2	...	...	...	...	...	...	...	1	...	...	...	2
20 to 99 employees.....	4	...	...	...	2	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...



## MANUFACTURES—AREA STATISTICS

Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954—Continued  
 (Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establish- ments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Roane:																					
1 to 19 employees.....	11	2	...	...	...	5	1	...	3	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	2	...	...	...	...	...	...	...	1	...	...	1	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Summers:																					
1 to 19 employees.....	22	1	...	...	...	17	...	...	2	1	...	...	1	...	...	...	...	...	...	...	...
20 to 99 employees.....	2	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
Taylor:																					
1 to 19 employees.....	14	3	...	...	...	10	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	3	...	...	...	...	...	...	1	1	...	...	...	1	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Tucker:																					
1 to 19 employees.....	19	1	...	...	...	17	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
Tyler:																					
1 to 19 employees.....	16	2	...	...	...	8	...	1	2	...	...	...	...	2	...	1	...	...	...	...	...
20 to 99 employees.....	2	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Upshur:																					
1 to 19 employees.....	25	2	...	...	...	18	...	...	3	...	...	...	...	2	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Wayne:																					
1 to 19 employees.....	32	3	...	...	...	23	...	...	1	2	...	...	...	3	...	...	...	...	...	...	...
20 to 99 employees.....	13	...	...	...	...	4	2	...	...	...	1	...	...	2	1	1	1	1	...	...	...
Webster:																					
1 to 19 employees.....	21	...	...	...	...	19	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	3	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Wetzel:																					
1 to 19 employees.....	20	1	...	...	...	15	...	...	2	...	...	...	...	1	1	...	...	...	...	...	...
20 to 99 employees.....	2	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	1	...	...	...	...
Wirt:																					
1 to 19 employees.....	12	...	...	...	...	12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Wood:																					
1 to 19 employees.....	44	11	...	...	1	12	3	...	8	1	1	...	...	1	...	1	4	...	1	...	...
20 to 99 employees.....	16	8	...	...	1	...	1	1	...	...	...	...	...	1	...	1	2	...	...	...	1
100 employees and over.....	21	1	...	...	1	...	...	1	1	3	...	...	...	7	1	3	2	1	...	...	...
Wyoming:																					
1 to 19 employees.....	21	1	...	...	...	18	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	7	...	...	...	...	6	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...

# WISCONSIN (71 COUNTIES)

## STANDARD METROPOLITAN AREAS

### CODE

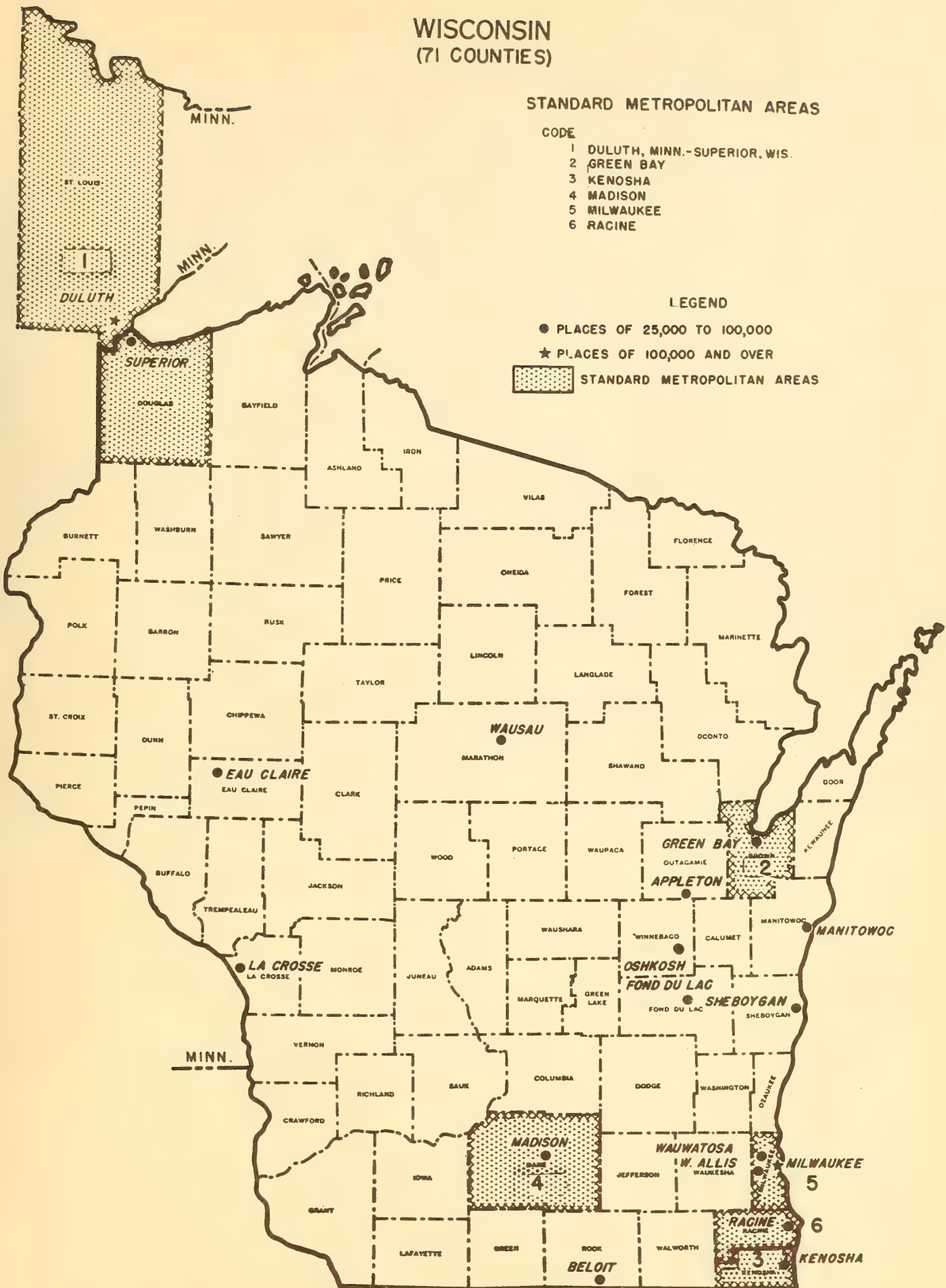
- 1 DULUTH, MINN.-SUPERIOR, WIS.
- 2 GREEN BAY
- 3 KENOSHA
- 4 MADISON
- 5 MILWAUKEE
- 6 RACINE

### LEGEND

● PLACES OF 25,000 TO 100,000

★ PLACES OF 100,000 AND OVER

▨ STANDARD METROPOLITAN AREAS



## MANUFACTURES—AREA STATISTICS

Table 1.—MANUFACTURING EMPLOYMENT AT OPERATING ESTABLISHMENTS AND CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARIES FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS

(This table includes data for all manufacturing employees including those located in central administrative offices and auxiliaries. Tables 2-7 in this report include data for operating establishments only. For explanation of column captions see Introduction)

State, standard metropolitan areas, and year <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	(Number)	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
Wisconsin:						
1954.....	439,215	1,869,059	429,919	1,814,390	9,296	54,669
1953 <sup>2</sup> .....	480,640	2,004,059	473,655	1,970,199	6,985	33,860
1952 <sup>2</sup> .....	465,037	1,871,517	457,201	1,841,909	<sup>3</sup> 7,836	<sup>3</sup> 29,608
1951 <sup>2</sup> .....	461,517	1,767,566	453,681	1,737,958	7,836	29,608
1950 <sup>2</sup> .....	429,402	1,484,231	423,612	1,463,151	5,790	21,080
1949 <sup>2</sup> .....	402,584	1,285,612	397,480	1,267,972	5,104	17,640
1954						
Standard metropolitan areas:						
Duluth-Superior <sup>4</sup> .....	12,717	49,648	12,701	49,526	16	122
Green Bay <sup>5</sup> .....	11,226	48,055	11,071	47,193	155	862
Kenosha <sup>6</sup> .....	15,207	66,572	15,113	65,925	94	647
Madison <sup>7</sup> .....	13,911	59,423	13,355	55,714	556	3,709
Milwaukee <sup>8</sup> .....	180,473	837,473	175,802	809,880	4,671	27,593
Racine <sup>9</sup> .....	22,695	103,984	22,024	99,999	671	3,985

<sup>1</sup>Employment data for administrative offices and auxiliaries on a State basis are not available for the years prior to 1949. Similar data for standard metropolitan areas are available only for 1954.

<sup>2</sup>The employment figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period. The employment figures for administrative and auxiliary units were compiled chiefly from Bureau of Old-Age and Survivors Insurance records and are not strictly comparable with the figures for these units that were collected by the Bureau of the Census for the year 1954.

<sup>3</sup>The 1951 data are shown for 1952 since auxiliary and administrative unit data were not collected in 1952.

<sup>4</sup>The Duluth-Superior Standard Metropolitan Area consists of Douglas County, Wisconsin; St. Louis County, Minnesota.

<sup>5</sup>The Green Bay Standard Metropolitan Area consists of Brown County, Wisconsin.

<sup>6</sup>The Kenosha Standard Metropolitan Area consists of Kenosha County, Wisconsin.

<sup>7</sup>The Madison Standard Metropolitan Area consists of Dane County, Wisconsin.

<sup>8</sup>The Milwaukee Standard Metropolitan Area consists of Milwaukee County, Wisconsin.

<sup>9</sup>The Racine Standard Metropolitan Area consists of Racine County, Wisconsin.



Table 2.—GENERAL STATISTICS FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Year	Establish- ments, number	All employees		Production workers		Value added by manufacture (\$1,000)				
		Number	Payroll (\$1,000)	Number	Wages (\$1,000)					
WISCONSIN										
1954 <sup>1</sup> .....	7,702	{	429,919	1,814,390	332,305	1,268,569	3,333,976			
1953 <sup>2</sup> .....			473,655	1,970,199	373,108	1,420,970	3,635,768			
1952 <sup>2</sup> .....			457,201	1,841,909	361,111	1,349,765	3,331,220			
1951 <sup>2</sup> .....			453,681	1,737,958	363,987	1,286,496	3,175,331			
1950 <sup>2</sup> .....			423,612	1,463,151	339,452	1,070,704	2,687,346			
1949 <sup>2</sup> .....	6,980	{	397,480	1,267,972	313,081	902,823	2,360,949			
1947.....			418,674	1,190,760	343,850	908,197	2,263,047			
1939.....			6,334	251,774	364,558	198,648	249,902	681,970		
1937.....			6,318	272,681	378,872	234,067	296,365	709,824		
1935.....			6,286	230,947	271,838	196,972	204,201	529,329		
1933.....	5,409	{	(NA)	(NA)	{	158,730	132,846	370,037		
1931.....	6,335					183,906	189,099	530,097		
1929.....	7,431					264,745	352,491	949,842		
1927.....	7,473					247,722	322,697	820,325		
1925.....	7,262					247,341	314,883	774,496		
1923.....	7,832	{	(NA)	(NA)	{	247,851	297,160	718,696		
1921.....	7,291					191,770	214,141	486,920		
1919.....	9,720					307,955	375,662	262,211	288,388	715,786
1914.....	9,078					222,728	149,673	194,206	112,116	277,617
1909.....	9,721					204,870	119,641	182,583	93,905	243,949
1904.....	8,558		165,611	86,970	151,391	71,472	183,885			
1899.....	7,841		148,005	66,188	137,525	55,696	141,057			
MILWAUKEE STANDARD METROPOLITAN AREA										
1954 <sup>1</sup> .....	1,979		175,802	809,880	129,608	538,856	1,439,620			
1947.....	1,961		178,412	538,797	141,111	396,643	972,613			
1939.....	1,465		94,774	147,996	79,473	111,135	287,667			
1929.....	1,939		141,068	233,200	117,658	170,962	434,038			
1919.....	2,247		(NA)	(NA)	106,137	117,674	302,457			

NA Not available.

<sup>1</sup>The 1954 figures include data for establishments engaged in the processing and distribution of fluid milk, Industry Group 202, Dairy Products. These establishments were not included in the figures for the Annual Survey years 1949-1953 or earlier Census years. In addition, the 1954 Census and Annual Survey years include data for Logging camps and contractors, Industry 2411, which were not included within the scope of the 1947 Census. See footnotes to Table 4 for comparable 1954 and 1947 totals. There were also a number of changes in the definition of manufacturing industries during earlier Census years that affect the comparability of the historical series. Among the more important of these were: figures for 1935 and later years exclude data for "Railroad repair shops" and "Manufactured gas" which were included in 1899-1933 figures; the minimum size of establishment included for 1954 and 1947 was one employee, for 1939-1921 manufacturing establishments reporting value of shipments of \$5,000 or more were within scope whereas for 1919 and earlier years the cut-off was \$500. (This change in procedure has not appreciably affected the comparability of the historical data except for the figures on number of establishments.)

<sup>2</sup>The employment and payroll figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures Volume for this period.

## MANUFACTURES—AREA STATISTICS

Table 3.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
Wisconsin, total.....	3,434,575	7,702	429,919	1,814,390	332,305	669,304	1,268,569	3,333,976	169,363	( <sup>1</sup> )	( <sup>1</sup> )
STANDARD METROPOLITAN AREAS											
Duluth-Superior area.....	252,777	432	12,701	49,526	10,159	19,406	36,220	78,630	6,076	12,931	55,526
Portion in Wisconsin.....	46,715	54	1,535	6,019	1,201	2,435	4,377	12,355	711	1,388	9,298
Portion in Minnesota.....	206,062	378	11,166	43,507	8,958	16,971	31,843	66,275	5,365	11,543	46,228
Green Bay area.....	98,314	241	11,071	47,193	8,921	19,220	35,474	92,972	5,981	9,491	54,566
Kenosha area.....	75,238	116	15,113	65,925	11,618	22,200	48,386	110,401	4,443	17,069	99,694
Madison area.....	169,357	261	13,355	55,714	10,021	20,046	38,332	95,893	4,368	10,671	49,070
Milwaukee area.....	871,047	1,979	175,802	809,880	129,608	255,419	538,856	1,439,620	68,648	178,412	972,613
Racine area.....	109,585	303	22,024	99,999	15,934	31,424	64,234	204,641	8,666	22,512	124,664
COUNTIES											
Adams.....	7,906	10	57	141	44	88	106	262	21	24	(D)
Ashland.....	19,461	59	1,106	3,141	951	1,890	2,639	6,175	227	892	3,854
Barron.....	34,703	75	1,481	4,337	1,275	2,631	3,458	7,852	531	998	4,346
Bayfield.....	13,760	46	591	2,066	501	910	1,617	4,031	246	420	2,070
Brown.....	98,814	241	11,071	47,193	8,921	19,220	35,474	92,972	5,981	9,491	54,566
Buffalo.....	14,719	25	279	766	249	507	639	1,396	118	239	1,093
Burnett.....	10,236	27	162	393	140	263	329	588	99	93	249
Calumet.....	18,840	63	1,813	6,192	1,478	3,168	4,440	10,233	589	1,764	8,934
Chippewa.....	42,839	81	3,076	11,394	2,260	4,548	7,579	24,270	1,588	1,940	10,521
Clark.....	32,459	96	1,013	2,856	846	1,820	2,228	4,992	398	1,039	5,183
Columbia.....	34,023	67	2,312	6,662	2,026	4,102	5,385	12,359	583	2,101	9,453
Crawford.....	17,652	49	607	1,755	530	1,081	1,427	3,156	291	738	2,809
Dane.....	169,357	261	13,355	55,714	10,021	20,046	38,332	95,893	4,368	10,671	49,070
Dodge.....	57,611	151	5,271	18,197	4,303	8,781	13,635	38,301	2,003	5,729	31,576
Door.....	20,870	32	1,821	6,435	1,644	3,196	5,545	9,695	286	830	2,758
Douglas.....	46,715	54	1,535	6,019	1,201	2,435	4,377	12,355	711	1,388	9,298
Dunn.....	27,341	42	1,017	3,139	800	1,648	2,230	5,943	293	952	4,822
Eau Claire.....	54,187	77	6,337	30,162	5,055	10,821	23,574	53,857	2,636	8,672	47,226
Florence.....	3,756	21	70	134	59	104	128	208	23	26	150
Fond Du Lac.....	67,829	142	7,784	30,127	6,083	11,947	20,066	60,457	1,748	7,153	38,410
Forest.....	9,437	30	545	1,860	445	908	1,261	2,805	247	658	3,929
Grant.....	41,460	95	804	1,929	709	1,442	1,632	3,763	247	633	6,722
Green.....	24,172	86	656	2,338	526	1,136	1,747	5,195	339	722	4,845
Green Lake.....	14,749	47	1,272	3,358	1,114	2,144	2,613	6,073	168	1,289	5,068
Iowa.....	19,610	51	369	1,048	322	751	898	2,343	342	376	1,829
Iron.....	8,714	32	190	336	167	292	293	722	40	159	609
Jackson.....	16,073	28	318	927	277	550	750	1,430	59	201	687
Jefferson.....	43,069	111	6,506	25,285	5,044	10,430	17,073	42,832	1,869	5,833	28,614
Juneau.....	18,930	21	496	1,392	441	903	1,152	3,367	196	410	1,510
Kenosha.....	75,238	116	15,113	65,925	11,618	22,200	48,386	110,401	4,443	17,069	99,694
Kewaunee.....	17,366	49	2,116	6,748	1,832	3,771	5,519	9,724	387	1,726	6,179
La Crosse.....	67,587	113	9,078	38,635	6,946	14,249	27,309	66,888	3,429	9,700	51,813
Lafayette.....	18,137	47	120	362	97	207	268	917	130	209	1,706
Langlade.....	21,975	50	931	2,494	827	1,565	1,969	4,172	150	992	3,074
Lincoln.....	22,235	68	2,490	8,257	2,088	4,414	6,272	17,033	637	2,329	16,467
Manitowoc.....	67,159	178	11,225	42,813	9,236	19,460	32,333	85,594	2,542	9,774	61,499
Marathon.....	80,337	179	8,902	33,008	7,308	14,764	24,522	62,097	6,336	8,593	47,763
Marinette.....	35,748	102	3,993	15,999	3,112	6,279	11,345	35,386	1,574	4,004	17,763
Marquette.....	8,839	13	288	668	229	448	502	1,292	99	176	478
Milwaukee.....	871,047	1,979	175,802	809,880	129,608	255,419	538,856	1,439,620	68,648	178,412	972,613
Monroe.....	31,378	35	515	1,520	414	914	1,164	3,451	361	322	1,507
Oconto.....	26,238	77	1,410	4,296	1,229	2,508	3,542	8,609	1,511	1,319	5,849
Oneida.....	20,648	55	2,120	8,113	1,760	3,562	6,192	16,663	1,209	1,521	9,291
Outagamie.....	81,722	172	10,382	40,750	8,527	18,013	30,674	76,260	3,296	10,211	52,712
Ozaukee.....	23,361	85	4,114	15,477	3,234	6,519	10,500	25,716	1,692	3,592	18,456
Pepin.....	7,462	15	220	496	197	356	429	1,534	25	195	845
Pierce.....	21,448	27	260	742	207	463	594	1,484	198	485	2,128
Polk.....	24,944	46	616	1,740	525	1,140	1,383	4,912	402	479	1,979
Portage.....	34,858	57	2,076	7,167	1,661	3,398	4,955	12,763	540	2,361	10,560
Price.....	16,344	58	929	3,000	810	1,719	2,474	6,373	866	896	3,933
Racine.....	109,585	303	22,024	99,999	15,934	31,424	64,234	204,641	8,666	22,512	124,664
Richland.....	19,425	48	341	1,011	277	595	833	2,101	134	355	2,048
Rock.....	92,778	124	17,279	76,435	14,064	28,183	57,456	169,189	10,445	16,200	91,738
Rusk.....	16,790	27	540	1,636	487	1,074	1,448	3,189	309	446	1,741
St. Croix.....	25,905	36	912	3,065	752	1,668	2,294	6,452	362	1,065	(D)

See footnotes at end of table.

Table 3.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
COUNTIES--Con.											
Sauk.....	38,120	77	4,256	15,986	3,296	6,921	11,693	20,435	478	1,025	3,750
Sawyer.....	10,323	30	166	328	149	261	288	675	50	144	389
Shawano.....	35,249	104	2,071	6,475	1,675	3,642	4,862	10,441	875	1,448	6,466
Sheboygan.....	80,631	238	12,071	48,531	9,594	20,382	34,293	80,807	2,949	13,485	71,410
Taylor.....	18,456	39	764	2,432	684	1,550	2,076	3,747	189	791	3,797
Trempealeau.....	23,730	39	704	1,722	629	1,271	1,462	3,050	239	532	2,172
Vernon.....	27,906	44	384	923	337	729	811	2,241	189	255	1,789
Vilas.....	9,363	28	365	854	326	618	721	1,945	102	310	899
Walworth.....	41,584	87	3,222	12,477	2,699	5,379	9,375	23,583	1,461	2,718	10,935
Washburn.....	11,665	20	165	407	154	290	366	556	25	219	681
Washington.....	33,902	83	5,218	20,140	4,150	8,177	13,548	38,749	1,535	4,219	21,396
Waukesha.....	85,901	243	8,014	33,502	6,104	12,199	23,141	54,333	2,756	7,280	40,929
Waupaca.....	35,056	115	2,289	7,444	1,737	3,515	4,883	12,631	464	3,154	17,807
Waushara.....	13,920	24	332	937	275	589	700	2,038	68	186	398
Winnebago.....	91,103	240	16,378	67,230	13,485	28,310	50,973	129,759	7,526	15,432	85,397
Wood.....	50,500	112	7,827	29,755	6,604	13,462	23,526	59,486	5,952	7,092	39,704
CITIES WITH 10,000 INHABITANTS OR MORE											
Appleton.....	34,010	88	5,681	22,215	4,534	9,521	15,901	39,700	1,758	5,338	26,025
Ashland.....	10,640	22	702	2,200	594	1,212	1,799	4,523	136	323	1,947
Beloit.....	29,590	42	8,985	38,227	7,608	14,870	30,182	61,585	2,780	8,586	34,545
Chippewa Falls.....	11,088	33	1,217	4,015	890	1,726	2,535	6,805	318	999	5,217
Eau Claire.....	36,058	61	6,167	29,758	4,902	10,525	23,262	52,795	2,508	8,302	46,747
Cudahy.....	12,182	25	7,399	37,727	5,670	11,441	27,470	58,001	4,313	5,897	31,840
Fond Du Lac.....	29,936	66	4,859	21,083	3,697	7,496	13,843	40,469	1,128	4,195	22,852
Green Bay.....	52,735	147	7,757	33,444	6,206	13,325	25,249	65,995	4,014	7,082	39,858
Janesville.....	24,899	46	7,109	33,989	5,505	11,504	24,259	100,127	7,388	5,922	(D)
Kenosha.....	54,368	100	14,942	65,396	11,514	21,996	48,093	109,505	4,372	16,895	99,053
La Crosse.....	47,535	92	8,568	36,972	6,521	13,329	26,100	63,863	3,131	9,238	49,857
Madison.....	96,056	166	11,049	47,840	8,136	15,997	32,312	80,299	2,694	9,076	41,381
Manitowoc.....	27,598	87	6,900	26,756	5,816	12,179	20,863	53,883	1,703	5,752	33,593
Marinette.....	14,178	38	1,914	7,805	1,370	2,785	4,750	17,130	950	2,095	8,120
Marshfield.....	12,394	42	2,436	7,631	1,970	4,060	5,443	13,613	944	2,025	8,081
Menasha.....	12,385	45	3,406	15,440	2,800	6,338	11,872	40,863	3,701	4,789	28,267
Milwaukee.....	637,392	1,671	123,918	558,997	92,605	181,169	374,835	997,522	45,882	134,041	751,631
Neenah.....	12,437	29	3,627	15,953	3,102	7,006	12,919	32,303	867	2,251	14,905
Oshkosh.....	41,084	125	8,159	30,705	6,604	12,981	22,436	48,406	2,405	8,058	40,823
Racine.....	71,193	235	18,650	85,677	13,261	26,160	53,933	171,334	6,115	19,152	109,752
Sheboygan.....	42,365	125	6,834	25,418	5,663	11,343	18,767	41,765	1,805	8,155	43,037
Shorewood.....	16,199	5	33	123	18	34	68	168	13	(D)	(D)
South Milwaukee.....	12,855	23	3,737	16,268	2,840	5,318	11,212	29,925	2,099	3,985	22,335
Stevens Point.....	16,564	26	1,397	4,669	1,074	2,182	2,982	7,361	333	1,681	7,110
Superior.....	35,325	37	1,456	5,854	1,129	2,291	4,220	12,113	681	1,278	(D)
Two Rivers.....	10,243	32	3,602	13,755	2,852	6,073	9,920	27,932	638	3,226	22,441
Watertown.....	12,417	36	1,535	5,936	1,235	2,394	3,636	10,042	226	1,324	5,763
Waukesha.....	21,233	86	4,796	21,348	3,560	7,019	14,517	34,774	1,528	5,595	32,064
Wausau.....	30,414	64	5,854	21,140	4,778	9,372	15,557	38,503	3,909	5,734	27,089
Wauwatosa.....	33,324	37	1,494	6,854	1,190	2,417	4,883	13,139	194	637	4,431
West Allis.....	42,959	101	23,622	114,171	16,217	32,138	73,981	200,372	8,627	224,197	95,197
Wisconsin Rapids.....	13,496	28	3,429	13,874	2,876	5,865	10,899	29,216	3,893	2,789	15,842

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

The 1947 data are not strictly comparable with the figures shown for 1954 due to differences in coverage of loggers and fluid milk distributors.  
See discussion in Introduction and footnotes to Table 4.



## MANUFACTURES—AREA STATISTICS

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947

(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establish- ments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Value of shipments (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
	All industries, total <sup>1</sup> ...	7,702	2,294	429,919	1,814,390	332,305	669,304	1,268,569	3,333,976	(2)	169,363	(3)	(3)
20	Food and kindred products...	2,190	533	63,217	240,273	46,387	94,978	157,470	514,597	(2)	35,731	(3)	(3)
201	Meat products.....	142	51	11,185	46,983	8,617	17,136	34,096	67,055	(2)	2,726	8,612	34,180
2011	Meat packing plants.....	57	23	8,883	39,153	6,834	13,635	28,977	55,038	(2)	2,010	7,482	28,772
2013	Prepared meats.....	59	21	1,514	6,150	1,049	2,124	3,685	9,281	(2)	475	1,015	4,888
2015	Poultry dressing plants.....	26	7	788	1,679	734	1,376	1,434	2,735	(2)	241	115	524
202	Dairy products.....	1,359	202	18,230	62,079	13,158	29,071	41,383	131,628	(2)	12,136	(3)	(3)
2021	Creamery butter.....	110	34	2,610	8,887	1,910	4,345	6,073	21,738	(2)	2,441	(3)	(3)
2022	Natural cheese.....	842	32	4,529	11,610	3,774	8,372	9,675	23,648	(2)	3,369	(3)	(3)
2023	Concentrated milk.....	59	41	2,720	10,618	2,309	5,145	8,785	30,078	(2)	1,929	(3)	(3)
2024	Ice cream and ices.....	68	18	1,230	4,252	677	1,328	1,967	7,437	(2)	844	(3)	(3)
2025	Special dairy products.....	36	20	2,109	7,619	1,735	3,735	5,734	15,717	(2)	589	(3)	(3)
2026	Fluid milk.....	46	1	252	820	179	369	524	1,022	(2)	151	(3)	(3)
2027	Fluid milk and other products..	198	56	4,778	18,273	2,571	5,775	8,623	31,985	(2)	2,811	(3)	(3)
203	Canned and frozen foods.....	166	120	(D)	(D)	(D)	(D)	(D)	(D)	(2)	(D)	(D)	(D)
2033	Canned fruits and vegetables...	125	108	8,307	21,616	7,421	15,412	17,311	42,095	(2)	102,784	2,460	34,762
2035	Pickles and sauces.....	31	11	1,064	3,071	932	1,835	2,281	5,225	(2)	14,460	141	5,937
204	Grain mill products.....	74	15	1,384	5,677	995	2,201	3,501	13,194	(2)	766	1,470	11,580
2042	Prepared animal feeds.....	61	12	1,006	3,919	701	1,554	2,303	8,585	(2)	556	(D)	(D)
205	Bakery products.....	141	56	(D)	(D)	(D)	(D)	(D)	(D)	(2)	(D)	(D)	(D)
2051	Bread and related products....	138	54	5,398	20,430	3,193	6,223	9,645	30,973	(2)	58,441	1,447	22,359
207	Candy and related products...	33	13	1,444	4,851	1,132	2,205	3,021	9,813	(2)	291	1,646	10,320
208	Beverages.....	214	62	14,108	68,532	9,425	17,950	41,967	197,216	(2)	15,023	12,148	155,225
2082	Beer and ale.....	44	32	11,143	55,304	7,567	14,483	34,831	161,485	(2)	271,516	12,682	119,970
2083	Malt.....	16	11	1,344	7,730	1,047	2,070	5,140	24,935	(2)	100,565	1,374	26,462
209	Miscellaneous foods.....	61	14	(D)	(D)	(D)	(D)	(D)	(D)	(2)	(D)	(D)	(D)
2099	Food preparations, n.e.c.....	41	7	755	2,313	577	1,119	1,543	5,847	(2)	13,752	359	(D)
21	Tobacco manufactures.....	17	5	(D)	(D)	(D)	(D)	(D)	(D)	(2)	(D)	(D)	(D)
2141	Tobacco stemming and redrying	4	3	235	421	212	427	362	737	(2)	2,283	27	...
22	Textile mill products.....	78	48	7,670	24,825	6,660	12,621	17,918	39,759	(2)	893	11,110	42,485
221	Woolen and worsted manufac- ture.....	13	8	705	2,397	593	1,145	1,666	3,386	(2)	167	1,281	4,784
2213	Woolen and worsted fabrics.....	7	5	556	1,887	461	886	1,287	2,714	(2)	150	1,108	4,151
225	Knitting mills.....	39	27	5,290	16,319	4,645	8,668	11,786	25,417	(2)	378	8,252	29,934
2251	Full-fashioned hosiery mills...	8	5	1,099	3,807	982	1,906	2,791	7,036	(2)	13,410	31	3,263
2252	Seamless hosiery mills.....	10	7	1,370	3,108	1,243	2,176	2,383	5,020	(2)	9,290	124	1,322
2253	Knit outerwear mills.....	10	7	901	2,799	790	1,402	1,870	4,104	(2)	7,133	55	1,291
229	Miscellaneous textile goods..	16	7	731	2,731	620	1,266	2,132	5,018	(2)	180	757	4,115
2291	Felt goods, n.e.c.....	3	3	366	1,418	320	664	1,136	2,608	(2)	54	(D)	(D)
23	Apparel and related prod- ucts.....	208	82	8,458	23,702	7,110	13,117	16,739	37,753	(2)	419	9,666	35,502
231	Men's and boys' suits.....	7	4	301	849	267	467	682	1,043	(2)	5	855	2,960
2311	Men's & boys' suits & coats....	7	4	301	849	267	467	682	1,043	(2)	5	855	2,960
232	Men's and boys' furnishings..	29	18	1,763	4,673	1,568	2,808	3,468	6,795	(2)	49	2,185	6,751
2327	Separate trousers.....	5	4	289	641	274	530	566	983	(2)	(D)	273	1,057
2329	Men's and boys' clothing, nec..	14	10	1,194	3,287	1,051	1,835	2,335	4,713	(2)	11,179	33	1,262
233	Women's and misses' outerwear	32	22	2,509	6,944	2,022	3,728	4,580	10,017	(2)	100	2,700	11,530
2333	Dresses, unit price.....	10	9	1,490	4,391	1,142	2,252	2,735	6,343	(2)	68	636	(D)
2334	Dresses, dozen price.....	10	4	347	853	303	474	577	1,039	(2)	9	1,831	7,374
2337	Women's suits, coats, & skirts.	9	6	505	1,340	448	755	994	2,015	(2)	(D)	(D)	(D)
234	Women's undergarments.....	6	3	389	872	381	680	819	3,016	(2)	13	148	435
238	Miscellaneous apparel.....	28	16	1,608	4,861	1,337	2,502	3,455	7,307	(2)	22	1,769	6,073
2385	Waterproof outer garments.....	7	5	741	2,598	565	1,037	1,737	3,803	(2)	10	498	(D)
2386	Leather & sheep-lined clothing.	6	4	320	961	262	484	643	1,120	(2)	5	609	(D)
239	Fabricated textiles, n.e.c....	83	12	1,222	3,619	947	1,799	2,257	6,421	(2)	194	1,269	5,428
2392	Housefurnishings, n.e.c.....	10	5	307	895	249	464	510	1,502	(2)	39	261	1,057
2393	Textile bags.....	6	2	280	769	202	351	455	1,106	(2)	25	168	(D)
2394	Canvas products.....	29	2	219	666	153	315	427	1,002	(2)	42	334	(D)
2399	Textile products, n.e.c.....	24	3	338	1,129	272	536	718	2,563	(2)	(D)	447	2,755
24	Lumber and wood products...	930	143	17,970	56,042	15,730	32,451	44,399	85,614	(2)	4,160	(3)	(3)
2411	Logging camps and contractors	306	4	1,228	2,607	1,118	1,852	2,343	4,175	(2)	421	(3)	(3)
242	Lumber and basic products...	335	42	4,279	11,806	3,872	7,713	9,780	17,319	(2)	981	4,881	18,377
2421	Sawmills and planing mills...	320	32	3,446	9,206	3,109	6,104	7,578	13,110	(2)	868	4,132	15,522
243	Millwork and related products	143	58	9,339	32,951	7,959	17,267	25,372	50,365	(2)	2,299	7,749	29,087
2431	Millwork plants.....	125	44	6,997	25,407	5,908	12,872	19,176	37,401	(2)	85,866	1,896	4,313
2432	Plywood plants.....	10	10	1,923	6,091	1,727	3,704	5,017	9,330	(2)	326	3,131	10,858
2433	Prefabricated wood products...	8	4	418	1,453	324	690	1,179	3,633	(2)	76	305	699
244	Wooden containers.....	63	27	1,918	5,316	1,745	3,586	4,325	7,732	(2)	225	2,585	9,559
2444	Wooden boxes.....	56	26	1,855	5,143	1,690	3,488	4,184	7,435	(2)	216	2,344	8,753
249	Miscellaneous wood products..	83	12	1,204	3,361	1,033	2,031	2,577	6,022	(2)	232	1,702	7,091
2499	Wood products, n.e.c.....	76	11	1,129	3,108	965	1,905	2,361	5,491	(2)	197	1,492	5,955

See footnotes at end of table.

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establish- ments, number		All employees		Production workers			Value added by manufacture	Value of shipments	Capital expendi- tures, new	All employees, number	Value added by manufacture
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
25	Furniture and fixtures.....	177	65	10,571	41,164	8,561	17,607	31,949	63,741	( <sup>2</sup> )	1,280	12,459	54,838
251	Household furniture.....	108	40	7,319	28,548	6,002	12,146	22,999	41,958	( <sup>2</sup> )	804	9,345	39,952
2511	Wood furniture, not upholstered.	58	22	2,910	10,195	2,475	5,304	7,828	15,873	27,127	433	4,110	15,519
2512	Upholstered household furniture	26	10	844	3,061	688	1,395	2,111	4,452	9,437	78	1,047	(D)
2514	Metal household furniture.....	5	3	215	671	179	309	468	1,137	2,757	31	(D)	(D)
2515	Mattresses and bedsprings.....	19	5	3,350	14,620	2,658	5,136	12,591	20,495	38,447	261	4,162	(D)
252	Office furniture.....	8	4	360	1,375	304	621	982	2,600	( <sup>2</sup> )	67	(D)	(D)
2521	Wood office furniture.....	4	1	148	438	126	224	350	667	1,251	8	(D)	(D)
2522	Metal office furniture.....	4	3	212	937	178	397	632	1,932	3,177	59	156	(D)
253	Public and professional fur- niture.....	20	10	1,835	7,324	1,388	3,047	5,062	12,921	( <sup>2</sup> )	264	1,635	8,284
2541	Partitions and fixtures.....	30	5	345	1,411	285	557	1,048	2,018	3,373	32	476	2,126
256	Screens, shades, and blinds..	7	3	219	666	173	370	520	1,169	( <sup>2</sup> )	(D)	(D)	(D)
259	Furniture fixtures, n.e.c....	4	3	491	1,840	406	864	1,336	3,073	4,911	(D)	(D)	(D)
2591	Restaurant furniture.....	4	3	491	1,840	406	864	1,336	3,073	4,911	(D)	(D)	(D)
26	Pulp, paper and products...	197	153	33,124	144,208	27,827	60,096	113,177	317,849	( <sup>2</sup> )	22,235	28,144	188,733
261	Pulp, paper and board.....	73	71	18,801	83,579	16,074	34,788	67,600	191,597	( <sup>2</sup> )	15,637	17,978	123,520
2611	Pulp mills.....	28	26	5,184	21,809	4,537	9,359	18,413	36,640	109,032	3,171	4,852	27,328
2612	Paper and paper board mills....	45	45	13,617	61,770	11,537	25,429	49,187	154,956	380,438	12,466	13,126	96,192
2641	Paper coating and glazing....	11	9	1,922	8,565	1,546	3,476	6,511	17,886	54,266	1,315	2,023	13,170
267	Paperboard containers.....	46	31	4,604	19,565	3,671	7,946	13,563	34,685	( <sup>2</sup> )	1,832	3,432	22,795
2671	Paperboard boxes.....	40	27	4,178	18,159	3,279	7,084	12,371	32,297	81,767	1,740	3,144	21,933
2674	Fiber cans, tubes, drums, etc..	6	4	426	1,406	392	862	1,192	2,388	5,391	92	288	862
269	Pulp, paper and products, n.e.c.....	54	33	7,223	30,577	6,067	12,973	24,092	70,347	( <sup>2</sup> )	3,283	4,435	28,079
2691	Die-cut paper and board.....	9	5	367	1,310	314	584	897	2,395	5,671	410	(D)	(D)
2699	Paper & board products, n.e.c..	40	26	6,591	28,039	5,552	11,975	22,302	65,458	207,363	2,743	4,185	(D)
27	Printing and publishing....	821	148	19,895	87,603	12,945	25,336	53,798	141,903	( <sup>2</sup> )	6,043	16,542	86,131
2711	Newspapers.....	290	49	6,966	27,977	3,466	6,638	14,697	49,326	71,570	1,661	5,633	28,899
2721	Periodicals.....	37	6	571	2,230	212	414	926	4,088	6,625	94	559	2,799
273	Books.....	26	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2731	Books; publishing and printing.	15	6	2,080	10,397	1,397	2,688	5,917	19,232	41,561	387	1,535	(D)
2751	Commercial printing.....	274	36	5,159	23,110	3,904	7,778	15,954	33,246	64,012	1,737	4,734	23,476
2761	Lithographing.....	77	27	2,351	11,747	1,878	3,751	7,972	17,762	28,735	1,466	1,564	9,376
278	Bookbinding and related in- dustries.....	24	8	1,001	3,574	800	1,525	2,339	5,397	( <sup>2</sup> )	114	1,071	4,219
2781	Bookbinding.....	12	4	206	711	187	367	607	957	1,161	32	314	841
279	Printing trade services.....	63	12	839	4,580	622	1,195	3,287	6,427	( <sup>2</sup> )	232	731	4,493
2791	Typesetting.....	18	3	204	939	142	252	602	1,473	1,653	67	237	1,375
2793	Photoengraving.....	22	6	330	2,090	235	490	1,533	2,663	3,102	102	300	2,073
2794	Electrotyping & stereotyping...	9	3	225	1,309	183	339	996	1,845	2,350	52	131	823
28	Chemicals and products.....	213	53	8,835	40,104	5,888	12,152	22,538	93,608	( <sup>2</sup> )	4,902	5,890	49,249
2823	Plastics materials.....	5	3	423	1,842	363	766	1,289	3,757	7,605	343	(D)	(D)
283	Drugs and medicines.....	26	8	883	3,700	394	794	1,205	7,805	( <sup>2</sup> )	351	976	4,889
2834	Pharmaceutical preparations....	22	6	760	3,152	315	633	946	6,725	8,900	235	736	(D)
285	Paints and allied products...	26	9	1,129	5,256	567	1,095	2,073	11,145	( <sup>2</sup> )	247	1,177	7,224
2851	Paints and varnishes.....	22	9	1,102	5,130	550	1,058	2,015	10,903	25,721	247	1,143	(D)
287	Fertilizers.....	12	6	372	1,645	285	678	1,160	4,170	( <sup>2</sup> )	320	(D)	(D)
288	Vegetables and animal oils...	21	5	292	1,154	238	589	883	2,260	7,209	521	333	3,287
2886	Grease and tallow.....	21	5	292	1,154	238	589	883	2,260	7,209	521	284	(D)
289	Chemical products, n.e.c.....	62	12	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2899	Chemical products, n.e.c.....	28	6	313	1,596	183	330	590	4,246	8,178	314	516	6,378
29	Petroleum and coal prod- ucts.....	21	10	1,131	5,674	786	1,594	3,437	9,639	( <sup>2</sup> )	1,266	1,066	9,318
2911	Petroleum and coal products..	4	4	260	1,370	185	379	960	4,579	17,251	693	(D)	(D)
299	Petroleum and coal products, n.e.c.....	14	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2992	Lubricants & coal prod., n.e.c..	11	3	296	1,595	136	278	530	1,978	5,475	(D)	(D)	(D)
30	Rubber products.....	30	15	4,690	22,811	3,979	8,232	18,810	41,335	( <sup>2</sup> )	1,855	5,588	(D)
31	Leather and leather goods...	154	98	17,583	58,997	14,974	28,150	44,151	93,614	( <sup>2</sup> )	1,864	21,274	102,365
3111	Leather and leather goods....	28	23	4,326	18,901	3,800	7,720	15,070	30,221	73,307	860	5,499	42,523
3131	Footwear cut stock.....	7	3	247	735	213	375	560	960	2,929	40	360	2,612
314	Footwear, except rubber.....	61	49	10,562	31,871	8,958	16,352	23,472	50,663	( <sup>2</sup> )	849	11,189	43,461
315	Leather gloves.....	27	14	1,007	2,528	859	1,515	1,816	4,147	( <sup>2</sup> )	24	2,123	5,587
3151	Leather dress gloves.....	10	5	420	997	357	588	667	1,609	2,804	12	1,510	3,781
3152	Leather work gloves.....	17	9	586	1,531	502	927	1,149	2,538	4,397	12	613	1,806
3161	Luggage.....	11	5	611	2,028	511	939	1,508	2,510	4,812	44	1,219	5,086
317	Purses and small leather goods.....	7	3	667	2,421	508	992	1,391	4,120	( <sup>2</sup> )	32	786	2,705

See footnotes at end of table.



## MANUFACTURES—AREA STATISTICS

Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establish- ments, number		All employees		Production workers			Value added by manufacture	Value of shipments	Capital expendi- tures, new	All employees, number	Value added by manufacture
		Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
32	Stone, clay, and glass prod- ucts.....	300	54	4,704	19,086	3,755	7,831	13,594	36,186	( <sup>2</sup> )	5,024	(D)	(D)
325	Structural clay products....	12	1	101	304	94	215	270	392	( <sup>2</sup> )	18	378	1,457
326	Pottery and related products.	9	3	820	3,645	634	1,480	2,678	5,372	( <sup>2</sup> )	160	(D)	(D)
327	Concrete and plaster products	199	27	1,902	8,171	1,412	2,951	5,179	14,345	( <sup>2</sup> )	1,521	1,625	8,238
3275	Mineral wool.....	4	2	138	518	109	235	363	832	1,586	98	194	909
3281	Cut-stone and stone products.	32	10	591	2,316	516	973	1,790	3,198	4,449	97	219	846
329	Nonmetallic mineral products, n.e.c.....	33	9	915	3,228	782	1,586	2,539	8,721	( <sup>2</sup> )	3,148	708	5,722
3291	Abrasive products.....	6	1	308	1,006	281	540	901	1,187	1,520	(D)	54	(D)
33	Primary metal industries...	221	112	25,461	120,080	20,555	40,680	89,758	189,553	( <sup>2</sup> )	11,626	24,478	129,998
332	Iron and steel foundries.....	84	60	11,418	49,779	9,219	17,857	36,675	68,610	( <sup>2</sup> )	2,920	12,990	62,181
3321	Gray-iron foundries.....	61	40	6,341	26,863	5,035	9,848	19,533	34,604	55,699	1,451	7,892	35,691
3322	Malleable-iron foundries.....	9	9	1,712	6,985	1,470	2,735	5,656	9,435	13,604	403	2,739	13,062
3323	Steel foundries.....	14	11	3,364	15,930	2,713	5,273	11,485	24,570	35,594	1,066	2,359	13,428
3361	Nonferrous foundries.....	81	31	3,858	17,300	3,140	6,254	12,755	22,600	43,124	1,566	2,912	12,541
339	Primary metal industries.....	40	17	8,523	45,666	6,715	13,665	34,103	78,206	( <sup>2</sup> )	5,213	5,516	36,621
3391	Iron and steel forgings.....	9	7	5,295	29,093	4,176	8,401	22,056	43,335	73,259	(D)	3,834	22,174
3399	Primary metal industries,n.e.c.	25	4	322	1,432	238	479	876	2,313	3,693	131	248	(D)
34	Fabricated metal products..	554	200	32,845	143,407	26,000	53,336	100,313	256,684	( <sup>2</sup> )	8,924	36,457	208,473
3411	Tin cans and other tinware...	7	7	1,918	8,504	1,715	3,492	7,300	26,661	77,710	1,166	398	(D)
342	Cutlery, tools, and hardware.	43	19	2,999	13,057	2,612	5,340	9,768	23,809	( <sup>2</sup> )	880	2,986	15,463
3423	Hand tools, n.e.c.....	14	8	1,002	4,477	816	1,674	3,259	7,861	12,411	308	1,129	6,994
3429	Hardware, n.e.c.....	23	10	1,926	8,146	1,686	3,455	6,188	15,176	24,610	551	1,717	7,993
343	Heating and plumbing equip- ment.....	38	14	5,016	23,448	3,456	7,508	14,498	40,352	( <sup>2</sup> )	653	12,604	75,815
3431	Plumbing fixtures and fittings.	12	5	2,541	13,641	1,788	4,216	8,870	23,836	37,218	413	3,224	(D)
3439	Heating & cooking equip., nec..	26	9	2,475	9,807	1,668	3,291	5,627	16,516	33,203	239	(D)	(D)
344	Structural metal products....	151	62	8,403	40,263	6,187	12,444	26,341	64,585	( <sup>2</sup> )	2,472	7,660	49,498
3441	Structural and ornamental work.	65	27	2,028	9,684	1,446	3,087	5,954	13,631	25,005	322	1,970	10,764
3442	Metal doors, sash, and trim....	17	4	492	1,966	356	717	1,180	3,142	6,890	171	(D)	(D)
3443	Boiler shop products.....	28	14	3,466	17,810	2,634	5,183	12,176	28,538	60,362	888	3,271	21,817
3444	Sheet-metal work.....	41	17	2,416	10,802	1,748	3,456	7,030	19,272	36,873	1,090	(D)	(D)
346	Metal stamping and coating...	163	65	10,908	43,795	9,211	18,832	32,641	76,069	( <sup>2</sup> )	2,903	9,251	47,566
3463	Metal stampings.....	88	47	9,756	39,392	8,233	16,879	29,381	69,338	128,560	2,463	8,307	43,887
3468	Plating and polishing.....	60	13	859	3,264	731	1,422	2,417	4,934	6,615	411	593	2,309
348	Fabricated wire products.....	30	7	545	2,021	448	956	1,514	3,254	( <sup>2</sup> )	175	506	3,481
3489	Wirework, n.e.c.....	26	7	515	1,932	424	908	1,451	3,118	5,002	159	495	(D)
3494	Bolts, nuts, washers, & rivets.	12	6	705	2,875	528	1,013	1,883	6,272	10,170	113	743	4,095
3495	Screw machine products.....	64	11	931	4,047	757	1,601	2,928	6,006	9,521	375	1,049	5,513
35	Machinery except electri- cal.....	954	306	87,171	409,838	64,618	130,133	276,431	715,291	( <sup>2</sup> )	35,957	94,136	468,111
351	Engines and turbines.....	22	18	14,048	62,705	10,818	21,525	45,454	115,038	( <sup>2</sup> )	9,382	17,901	78,279
352	Tractors and farm machinery..	92	34	15,822	68,833	11,329	22,193	46,768	128,811	( <sup>2</sup> )	(D)	19,588	97,367
3521	Tractors.....	15	10	10,361	46,670	7,328	14,349	32,034	87,896	186,285	(D)	13,109	67,264
3522	Farm machinery (exc. tractors).	77	24	5,461	22,162	4,001	7,843	14,733	40,914	76,094	1,478	6,479	30,103
353	Construction and mining ma- chinery.....	34	26	11,710	55,005	8,942	18,088	38,582	93,935	189,057	3,970	(D)	(D)
3531	Construction & mining machinery	34	26	11,710	55,005	8,942	18,088	38,582	93,935	189,057	3,970	12,553	(D)
354	Metalworking machinery.....	233	55	9,796	55,361	7,381	15,622	37,752	102,048	( <sup>2</sup> )	4,840	9,794	50,055
3541	Machine tools.....	27	15	6,156	35,754	4,374	9,217	22,857	70,913	96,597	2,609	(D)	(D)
3542	Metalworking machinery.....	17	8	879	4,465	673	1,378	2,879	8,663	12,593	272	658	(D)
3544	Special dies and tools.....	167	27	2,416	13,433	2,075	4,472	10,870	19,499	27,296	1,846	3,234	17,329
3545	Metalworking mach. attachments.	22	5	344	1,708	257	553	1,144	2,971	3,775	112		
355	Special-industry machinery, n.e.c.....	101	55	8,336	38,203	6,552	13,154	27,401	61,677	( <sup>2</sup> )	1,937	12,052	57,343
3551	Food-products machinery.....	39	23	2,975	12,796	2,206	4,584	8,658	22,314	39,453	584	3,966	19,713
3553	Woodworking machinery.....	13	9	1,172	4,730	878	1,775	3,178	7,513	11,334	80	2,311	12,859
3554	Paper-industries machinery....	15	11	3,048	15,374	2,633	5,079	12,206	21,936	44,823	881	2,694	11,307
3559	Special-industry mach., n.e.c..	23	9	739	3,601	534	1,091	2,157	6,939	11,048	218	2,489	9,949
356	General industrial machinery.	102	49	13,999	70,934	9,347	18,968	40,869	115,191	( <sup>2</sup> )	5,419	12,131	62,812
3561	Pumps and compressors.....	24	14	2,995	14,430	1,975	3,730	8,297	23,614	42,976	1,376	2,781	11,681
3562	Elevators and escalators.....	5	4	182	1,137	102	229	514	2,261	3,365	22	152	558
3563	Conveyors.....	14	4	3,611	19,589	2,343	4,991	10,014	28,868	40,068	(D)	720	3,087
3566	Power-transmission equipment...	23	12	3,584	18,527	2,530	5,256	11,471	31,458	47,531	1,001	4,118	24,591
3569	General industrial mach., nec..	16	8	1,202	5,530	777	1,469	3,186	9,060	16,876	241	3,877	20,211
357	Office and store machines....	8	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3579	Office and store machines, nec.	6	3	117	529	78	155	283	814	1,363	25	110	(D)
358	Service and household ma- chines.....	43	23	7,944	34,757	5,773	11,540	22,237	58,877	( <sup>2</sup> )	2,531	4,473	26,577
3585	Refrigeration machinery.....	20	13	4,627	19,884	3,293	6,770	12,582	33,361	( <sup>2</sup> )	1,943	2,436	11,153
3589	Service & household mach., nec.	14	5	908	4,145	681	1,276	2,807	6,890	19,246	202	765	(D)

See footnotes at end of table.



Table 4.--GENERAL STATISTIC BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947--Continued  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954										1947	
		Establishments, number		All employees		Production workers			Value added by manufacture	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
	Machinery, except electrical--Continued												
359	Miscellaneous machinery parts	319	41	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3591	Valves & fittings, exc. plbg...	10	7	1,423	6,291	1,153	2,233	4,553	11,229	16,856	569	2,978	12,034
3594	Industrial patterns and molds...	86	7	715	3,594	608	1,240	2,922	5,411	6,608	154	(D)	(D)
3599	Machine shops.....	216	24	2,701	11,042	2,236	4,655	8,384	17,808	25,758	760	1,783	7,719
36	Electrical machinery.....	161	88	35,570	157,456	26,093	51,308	104,180	280,681	(2)	10,702	29,245	137,852
361	Electrical industrial apparatus.....	74	49	24,675	115,116	17,605	34,918	74,465	203,672	(2)	7,477	21,738	108,534
3611	Wiring devices and supplies....	8	4	530	2,375	345	666	1,301	4,722	7,715	187	153	(D)
3614	Motors and generators.....	21	16	7,210	32,327	5,030	10,203	20,513	48,734	77,899	3,006	6,746	28,763
3615	Transformers.....	6	3	1,958	9,479	1,286	2,615	5,967	18,067	29,660	726	1,086	(D)
3616	Electrical control apparatus...	18	12	13,254	63,983	9,750	19,114	42,726	120,011	159,463	2,795	13,107	72,289
3617	Electrical welding apparatus...	6	6	557	2,550	383	761	1,477	5,662	12,940	(D)	(D)	(D)
3619	Elec. industrial apparatus, nec.	7	4	880	3,627	560	1,063	1,904	4,576	9,474	(D)	146	579
3621	Electrical appliances.....	15	7	3,150	12,349	2,426	4,618	8,721	23,010	41,414	1,619	2,150	9,965
3641	Engine electrical equipment...	7	3	957	3,287	817	1,545	2,522	4,189	7,430	76	988	(D)
366	Communication equipment.....	40	17	2,872	10,366	2,327	4,432	7,922	20,137	(2)	477	1,062	3,058
369	Electrical products, n.e.c....	25	12	3,914	16,337	2,917	5,793	10,549	29,672	(2)	1,051	3,301	12,175
3691	Storage batteries.....	5	2	210	844	179	341	687	1,731	6,763	(D)	585	(D)
37	Transportation equipment...	124	63	28,606	128,150	23,653	46,467	100,351	251,243	(2)	10,098	30,328	165,998
371	Motor vehicles and equipment...	67	35	20,497	94,534	16,842	32,765	73,585	194,084	(2)	9,586	25,464	147,706
3713	Truck and bus bodies.....	16	6	516	1,887	430	872	1,433	3,036	5,174	80	2,954	(D)
3715	Truck trailers.....	5	3	572	2,393	414	800	1,560	3,762	7,006	157	1,084	(D)
3716	Automobile trailers.....	12	5	289	988	240	516	692	2,664	5,388	104	(D)	(D)
3717	Motor vehicles and parts.....	34	21	19,118	89,266	15,757	30,576	69,899	184,621	(2)	9,244	21,421	(D)
372	Aircraft and parts.....	9	6	2,023	9,748	1,463	3,164	7,056	17,902	(2)	22	(D)	(D)
373	Ships and boats.....	39	18	4,057	15,652	3,686	7,456	13,462	25,702	(2)	313	933	2,911
3731	Ship building and repairing....	9	9	3,607	14,199	3,305	6,706	12,385	23,860	34,152	182	360	1,396
3732	Boat building and repairing....	30	9	450	1,453	381	749	1,076	1,841	3,108	131	537	1,515
38	Instrument and related products.....	53	13	7,655	33,500	5,248	10,562	20,724	56,245	(2)	1,499	5,914	24,071
3821	Mech. measuring instruments...	12	4	2,235	9,607	1,647	3,361	6,544	16,755	26,304	766	(D)	(D)
384	Medical equipment and supplies.....	21	3	963	4,011	522	1,068	1,935	4,464	(2)	161	(D)	(D)
3861	Photographic equipment.....	10	3	499	1,883	347	653	1,121	3,200	4,723	89	85	(D)
39	Miscellaneous manufactures <sup>4</sup>	299	105	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	9,545	52,331
393	Musical instruments and parts	8	4	474	1,794	388	800	1,352	3,078	(2)	58	178	(D)
394	Toys and sporting goods.....	62	22	1,912	5,056	1,706	3,129	3,882	8,822	(2)	216	2,031	6,955
3949	Sporting and athletic goods....	44	12	933	2,249	800	1,416	1,561	4,182	6,876	74	896	2,052
3971	Plastics products, n.e.c.....	50	22	1,705	6,113	1,385	2,723	4,264	8,677	19,044	(D)	900	(D)
398	Miscellaneous manufactures <sup>4</sup>	151	51	8,104	33,945	6,311	12,600	23,475	67,138	(2)	1,027	3,426	15,295
399													
3981	Brooms and brushes.....	18	5	444	1,345	351	733	869	2,564	4,935	156	288	1,234
3988	Morticians' goods.....	11	7	385	1,339	307	613	907	1,991	3,858	27	381	1,759
3993	Signs and advertising displays...	70	13	948	3,620	721	1,294	2,217	5,543	9,318	167	536	2,450
3999	Miscellaneous products, n.e.c....	22	5	999	3,782	684	1,294	1,901	7,026	11,574	220	662	(D)
1900	Ordinance and accessories.....	17	15	4,422	20,581	3,474	7,132	15,098	44,215	(2)	367	(D)	(D)

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industries (4-digit) and industry groups (3-digit) are not shown. Industries and industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "all industries" line.

<sup>2</sup>The total value of shipments figures for industry groups and a few individual industries have not been published due to the extensive and unmeasurable duplication arising from shipments from one establishment to another in the same industry classification contained in these figures. (See Introduction.)

<sup>3</sup>Comparable data are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude establishments in S.I.C. Industry 2411, Logging Camps and Contractors, which are included in the scope of the 1954 Census; the 1947 Census also excludes plants processing and distributing fluid milk which in 1954 are classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	All industries except subgroups 202 and 2411, total.....	410,461	3,198,173	405,940	2,171,810
20	Food and kindred products except subgroup 202, Dairy products.....	44,987	382,969	42,554	291,851
24	Lumber and wood products except Industry 2411, Logging camps and contractors.....	16,742	81,439	16,917	64,114

<sup>4</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordinance and Accessories." (Establishments which are Government-owned and operated are not included.)

## MANUFACTURES—AREA STATISTICS

Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947  
(For explanation of column captions see Introduction)

Code	Industry group	Establishments, number	1954							1947	
			All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours ((1,000)	Wages (\$1,000)				
MILWAUKEE STANDARD METROPOLITAN AREA (Consists of Milwaukee County, Wisconsin)											
	All industries, total <sup>1</sup> ..	1,979	175,802	809,880	129,608	255,419	538,856	1,439,620	68,648	178,412 <sup>2</sup>	972,613 <sup>2</sup>
20	Food and kindred products..	204	21,961	100,269	14,765	28,107	60,205	238,742	15,729	( <sup>3</sup> )	( <sup>3</sup> )
201	Meat products.....	48	4,137	18,548	3,044	5,990	12,762	27,712	730	4,026	16,623
202	Dairy products.....	21	1,398	6,333	714	1,501	2,717	10,032	1,108	( <sup>3</sup> )	( <sup>3</sup> )
203	Canned and frozen foods.....	8	335	988	255	462	590	1,649	31	456	2,110
205	Bakery products.....	39	3,340	12,832	1,988	3,692	5,978	19,352	910	3,724	15,681
207	Candy and related products...	16	1,229	4,307	956	1,849	2,626	8,371	253	1,345	9,280
208	Beverages.....	35	10,455	53,244	7,040	13,181	33,181	160,745	12,275	8,325	118,517
209	Miscellaneous foods.....	32	785	2,804	560	1,031	1,704	7,988	310	995	8,365
21	Tobacco manufactures.....	9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	153	(D)
22	Textile mill products.....	27	2,221	7,401	2,013	3,835	5,551	13,051	110	4,368	20,033
225	Knitting mills.....	14	1,882	6,263	1,714	3,253	4,626	10,984	71	3,860	16,661
229	Miscellaneous textile goods...	7	216	763	194	383	659	1,491	35	(D)	(D)
23	Apparel & related prod.....	111	4,008	11,684	3,269	6,084	7,870	17,056	194	5,324	21,882
232	Men's & boys' furnishings.....	13	285	758	245	432	525	949	7	480	1,609
233	Women's & misses' outerwear...	22	1,906	5,616	1,496	2,799	3,554	8,219	84	2,165	9,984
238	Miscellaneous apparel.....	13	397	1,234	330	589	809	1,625	1	(D)	(D)
239	Fabricated textiles, n.e.c....	38	579	1,700	460	886	1,099	2,512	60	702	2,929
24	Lumber and wood products...	58	1,197	4,927	966	1,865	3,268	7,068	265	1,302	5,643
243	Millwork and related products.....	35	735	3,426	565	1,101	2,136	4,406	217	589	2,251
244	Wooden containers.....	7	281	994	243	461	714	1,557	17	401	2,080
249	Miscellaneous wood products...	12	135	372	116	228	305	895	24	(D)	(D)
25	Furniture and fixtures.....	44	1,039	4,466	838	1,621	3,106	6,501	184	1,060	4,886
251	Household furniture.....	22	580	2,611	460	901	1,756	3,553	89	536	2,856
254	Partitions and fixtures.....	15	184	805	147	273	555	1,131	14	(D)	(D)
26	Pulp, paper and products...	40	4,130	17,512	3,251	6,770	11,979	29,473	2,866	3,455	22,235
266	Paper bags.....	4	121	334	96	174	248	489	54	(D)	(D)
267	Paper board containers.....	16	2,681	12,000	2,101	4,522	8,359	18,971	1,160	1,988	13,635
269	Pulp, paper & products, n.e.c.	14	565	2,148	440	781	1,249	3,886	536	921	5,007
27	Printing and publishing....	264	10,084	47,094	6,315	12,285	28,271	70,599	3,550	9,051	48,727
271	Newspapers.....	23	2,663	12,112	1,054	1,982	5,755	20,238	969	(D)	(D)
272	Periodicals.....	16	420	1,703	159	309	693	3,018	75	289	1,632
273	Books.....	10	408	1,556	141	284	626	2,432	30	(D)	(D)
275	Commercial printing.....	109	3,267	15,649	2,406	4,698	10,572	20,849	1,064	3,424	17,135
276	Lithographing.....	48	1,813	9,651	1,433	2,869	6,421	14,537	1,139	1,463	8,939
278	Bookbinding & related inds....	12	924	3,334	730	1,382	2,129	4,991	102	943	3,889
279	Printing trade service.....	43	538	2,974	390	759	2,072	4,187	169	568	3,546
28	Chemicals and products.....	106	2,983	13,418	1,786	3,439	6,249	28,863	1,511	2,909	21,111
283	Drugs and medicines.....	11	589	2,609	236	485	725	5,527	229	651	2,702
284	Soap and related products....	31	246	1,059	171	271	515	1,939	39	(D)	(D)
285	Paints and allied products....	13	900	4,201	449	870	1,704	8,696	214	995	5,432
289	Chemical products, n.e.c.....	39	1,007	4,339	765	1,442	2,588	10,433	630	837	9,249
29	Petroleum and coal products.....	9	661	3,288	452	911	1,889	2,953	529	703	5,119
299	Petroleum & coal prod., n.e.c..	7	183	1,017	57	113	225	731	455	(D)	(D)
30	Rubber products.....	10	197	648	145	265	406	1,175	94	210	(D)
309	Rubber industries, n.e.c.....	10	197	648	145	265	406	1,175	94	(D)	(D)
31	Leather and leather goods..	62	6,400	23,843	5,339	10,187	17,373	32,654	950	8,962	47,065
311	Leather tanning & finishing...	21	2,673	11,303	2,366	4,720	8,878	17,048	762	(D)	(D)
314	Footwear, except rubber.....	14	3,199	10,989	2,536	4,709	7,375	13,478	145	3,629	13,239
315	Leather gloves.....	10	234	664	189	319	459	893	4	1,125	3,087
32	Stone, clay, & glass prod...	72	1,129	4,974	854	1,858	3,339	8,986	635	1,293	6,683
327	Concrete & plaster products...	39	660	3,246	472	1,029	2,155	6,183	559	485	3,277
328	Cut-stone and stone products..	8	149	746	117	246	492	1,054	14	148	620
33	Primary metal industries....	89	14,667	72,784	11,748	23,307	54,620	110,796	6,534	13,755	73,211
332	Iron and steel foundries.....	28	5,892	26,756	4,657	8,866	19,316	35,634	1,641	7,202	32,284
336	Nonferrous foundries.....	28	1,727	7,789	1,487	3,036	6,134	8,091	177	(D)	(D)
339	Primary metal industries.....	24	6,962	37,869	5,530	11,244	28,881	65,490	4,675	4,110	28,950
34	Fabricated metal products..	232	14,386	66,281	11,227	22,533	46,114	124,223	4,351	12,999	74,861
342	Cutlery, tools and hardware...	14	1,665	7,233	1,489	3,054	5,610	13,494	297	1,378	6,841
343	Heating and plumbing equipment.....	14	1,638	6,324	1,173	2,360	4,222	14,010	341	1,835	8,339
344	Structural metal products.....	62	6,166	30,888	4,504	8,911	20,054	49,936	1,922	6,123	42,217
346	Metal stamping and coating....	71	2,189	9,912	1,757	3,586	6,896	15,118	423	2,189	10,166
347	Lighting fixtures.....	11	178	583	139	251	344	1,081	22	209	842

See footnotes at end of table.



Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUP: 1954 AND 1947--Continued  
(For explanation of column captions see Introduction)

Code	Industry group	Establishments, number	1954							1947	
			All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours ((1,000))	Wages (\$1,000)				
35	Machinery, exc. electrical.....	408	47,408	231,562	34,558	69,340	153,317	397,624	21,321	53,690	262,546
351	Engines and turbines.....	9	7,730	36,962	5,884	11,724	26,423	72,148	7,106	11,249	46,699
352	Tractors and farm machinery...	12	6,749	31,182	4,836	9,299	21,320	52,806	2,162	(D)	(D)
353	Construction & mining mach....	18	9,203	42,507	6,864	13,521	28,925	75,449	2,535	(D)	(D)
354	Metalworking machinery.....	127	5,116	29,118	3,876	8,363	20,729	48,474	3,211	5,450	26,058
355	Special-industry mach., n.e.c....	28	2,176	10,071	1,585	3,247	6,419	18,743	404	5,233	25,939
356	General industrial machinery..	53	10,952	56,986	7,197	14,748	32,104	92,219	4,723	7,371	38,402
357	Office and store machinery....	5	241	1,020	156	299	523	1,626	30	(D)	(D)
358	Service & household machines..	13	2,506	11,768	1,868	3,593	7,647	15,191	378	(D)	(D)
359	Miscellaneous mach. parts.....	143	2,732	11,945	2,288	4,541	9,223	20,964	770	3,871	16,639
36	Electrical machinery.....	64	24,704	115,371	17,541	34,561	75,003	205,467	7,320	21,964	103,108
361	Elec. industrial apparatus....	34	19,504	93,405	13,753	27,199	60,661	166,360	5,246	18,567	92,574
362	Electrical appliances.....	4	1,216	5,221	973	1,844	3,704	10,169	938	(D)	(D)
369	Electrical products, n.e.c....	8	2,080	10,568	1,211	2,507	5,526	16,796	900	1,451	3,681
37	Transportation equipment...	27	7,864	38,269	6,439	12,325	29,311	62,102	1,018	14,775	65,395
371	Motor vehicles and equipment..	16	5,897	29,463	4,816	9,248	22,398	48,131	860	11,203	51,159
38	Instruments & related products.....	24	5,552	24,593	3,770	7,532	15,073	42,247	886	992	4,897
382	Mech. measuring instruments...	7	2,181	9,443	1,606	3,286	6,434	16,381	761	(D)	(D)
386	Photographic equipment.....	6	366	1,357	255	471	806	2,481	66	(D)	(D)
39	Miscellaneous manufactures <sup>4</sup> .....	119	5,111	21,277	4,242	8,419	15,735	39,683	581	1,915	7,525
394	Toys and sporting goods.....	14	236	700	202	371	422	1,006	51	476	1,233
397	Plastics products, n.e.c.....	21	676	2,708	579	1,112	1,872	4,406	(D)	439	1,728
398	Miscellaneous manufactures <sup>4</sup> ...	71	4,092	17,598	3,382	6,792	13,231	33,856	317	809	3,746

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industry groups (3-digit) are not shown. Industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "All industries" line.

<sup>2</sup>The 1954 and 1947 "All industries" totals are not strictly comparable because of differences in scope between the two years in Major Group 20 (see footnote 3).

<sup>3</sup>Comparable data for Major Group 20 are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude plants processing and distributing fluid milk which in 1954 were classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
20	Food and kindred products except Subgroup 202, Dairy Products...	20,563	228,710	19,000	172,000

<sup>4</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)



## MANUFACTURES—AREA STATISTICS

Table 6.—GENERAL STATISTICS FOR PRINCIPAL INDUSTRIAL COUNTIES, BY MAJOR INDUSTRY GROUP: 1954 AND 1947

(Principal industrial counties include all counties with 20,000 or more manufacturing employees. For explanation of column captions see Introduction)

Code	Major industry group	1954								1947	
		Establish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendit- ures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
		Milwaukee County is coextensive with the Milwaukee Standard Metropolitan Area. Data for this area are shown in Table 5.									
		RACINE COUNTY									
	All industries, total <sup>1</sup> .....	303	22,024	99,999	15,934	31,424	64,234	204,641	8,666	<sup>2</sup> 22,512	<sup>2</sup> 124,664
20	Food and kindred products.....	27	880	3,940	536	1,129	1,909	7,755	460	844	6,233
23	Apparel and related products..	8	766	2,663	592	1,114	1,819	3,809	11	566	(D)
31	Leather and leather goods.....	9	727	3,090	591	1,190	2,322	6,195	71	879	4,086
33	Primary metal industries.....	23	1,737	7,635	1,401	2,651	5,532	10,227	370	2,101	11,526
34	Fabricated metal products.....	50	2,075	9,340	1,627	3,173	6,351	13,672	485	2,982	16,138
35	Machinery, except electrical..	86	7,528	34,131	5,178	10,313	22,008	68,363	3,653	9,735	49,212
36	Electrical machinery.....	22	2,925	12,776	2,152	4,234	8,276	22,499	732	1,438	7,302
37	Transportation equipment.....	4	740	3,683	682	1,511	3,254	6,557	221	34	(D)
39	Miscellaneous manufactures <sup>3</sup> ...	16	1,146	4,610	783	1,513	3,042	11,496	118	1,195	4,633

D Withheld to avoid disclosing data for individual companies.

<sup>1</sup>In order to avoid disclosing data for individual companies, the statistics for some industry groups are not shown. Industry groups reporting less than 100 employees are also omitted. They are included, however, in the "All industries" line.<sup>2</sup>The 1954 and 1947 "All industries" totals are not strictly comparable because of differences in coverage of loggers and fluid milk distributors. See discussion in Introduction and footnote to Table 4 for comparable figures at the State level.<sup>3</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, "Ordnance and Accessories." (Establishments which are Government-owned and operated are not included.)

Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954

20 Food and kindred products	26 Pulp, paper and products	32 Stone, clay, and glass products	38 Instruments and related products
21 Tobacco manufactures	27 Printing and publishing	33 Primary metal industries	39 Miscellaneous manufactures (Includes Group 19 Ordnance and accessories)
22 Textile mill products	28 Chemicals and products	34 Fabricated metal products	
23 Apparel and related products	29 Petroleum and coal products	35 Machinery, except electrical	
24 Lumber and wood products	30 Rubber products	36 Electrical machinery	
25 Furniture and fixtures	31 Leather and leather goods	37 Transportation equipment	

(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Wisconsin, total.....	7,702	2,190	17	78	208	930	177	197	821	213	21	30	154	300	221	554	954	161	124	53	299
1 to 4 employees.....	3,221	1,002	8	11	71	578	59	14	419	77	3	8	25	156	41	197	341	40	34	21	116
5 to 9 employees.....	1,187	388	1	10	30	114	33	14	151	48	3	3	12	53	26	81	144	19	15	9	33
10 to 19 employees.....	999	267	3	9	25	95	20	16	102	35	5	4	19	37	42	76	163	14	12	10	45
20 to 49 employees.....	966	267	2	16	28	69	25	28	84	30	5	8	27	38	35	99	119	19	24	3	40
50 to 99 employees.....	547	164	3	6	29	29	16	35	30	11	2	4	22	11	27	36	63	21	7	1	30
100 to 249 employees.....	440	77	...	18	20	33	20	47	24	5	2	1	27	1	22	32	54	20	13	1	23
250 to 499 employees.....	188	17	...	6	5	8	1	27	6	4	1	...	17	4	21	16	31	10	5	2	7
500 to 999 employees.....	85	1	...	2	...	3	1	13	2	2	...	1	3	...	4	12	17	10	5	5	4
1,000 to 2,499 employees.....	54	5	...	...	...	1	1	3	3	...	...	...	...	2	...	5	18	6	7	...	1
2,500 employees and over.....	15	2	...	...	...	...	1	...	...	1	...	1	...	...	1	...	4	2	2	1	...
Adams:																					
1 to 19 employees.....	9	3	...	...	...	5	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
Ashland:																					
1 to 19 employees.....	47	10	...	...	...	28	...	...	5	...	...	...	...	...	...	1	1	...	...	...	2
20 to 99 employees.....	9	1	...	...	...	4	...	2	1	...	...	...	...	...	...	...	...	...	1	...	...
100 employees and over.....	3	...	...	...	1	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Barron:																					
1 to 19 employees.....	56	29	...	...	...	13	1	...	5	1	...	...	...	1	...	...	3	...	2	...	1
20 to 99 employees.....	15	8	...	...	1	4	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...
100 employees and over.....	4	2	...	...	...	...	...	...	...	...	...	...	...	1	...	1	...	...	...	...	...
Bayfield:																					
1 to 19 employees.....	43	11	...	...	...	27	...	...	2	...	...	...	...	...	1	1	1	...	...	...	...
20 to 99 employees.....	2	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Brown:																					
1 to 19 employees.....	172	61	1	1	4	15	4	2	23	11	1	1	2	10	2	6	17	1	1	3	6
20 to 99 employees.....	43	13	...	...	2	1	3	7	2	2	...	...	2	1	2	3	3	...	...	1	1
100 employees and over.....	26	8	...	...	...	...	1	10	2	...	...	...	1	...	1	...	2	...	...	...	1
Buffalo:																					
1 to 19 employees.....	22	10	...	...	1	7	...	...	3	...	...	...	...	...	...	...	...	...	1	...	...
20 to 99 employees.....	3	2	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Burnett:																					
1 to 19 employees.....	26	5	...	...	...	16	...	...	1	...	...	...	...	...	...	...	3	...	...	...	1
20 to 99 employees.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
Calumet:																					
1 to 19 employees.....	45	28	...	...	...	1	...	...	5	1	...	...	...	3	...	2	4	...	1	...	...
20 to 99 employees.....	13	7	...	...	...	1	1	...	...	...	...	...	1	...	...	2	...	...	1	...	...
100 employees and over.....	5	...	...	...	...	...	...	...	...	...	...	...	1	...	1	1	2	...	...	...	...
Chippewa:																					
1 to 19 employees.....	55	21	...	...	...	10	1	...	8	2	...	...	...	5	2	2	2	...	...	...	2
20 to 99 employees.....	18	8	...	...	...	5	...	1	1	...	...	...	1	...	...	...	1	...	...	...	1
100 employees and over.....	8	1	...	1	1	...	...	1	...	...	...	...	2	...	1	...	...	1	...	...	...
Clark:																					
1 to 19 employees.....	81	57	...	...	...	14	1	...	7	...	...	...	...	...	...	...	...	1	...	...	...
20 to 99 employees.....	13	7	...	...	...	1	...	2	...	...	...	...	1	...	...	...	1	...	...	...	...
100 employees and over.....	2	1	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
Columbia:																					
1 to 19 employees.....	46	19	...	...	...	4	1	...	12	...	...	...	1	...	1	4	3	...	...	...	1
20 to 99 employees.....	16	10	...	...	1	1	...	...	...	...	...	...	1	...	1	...	...	...	...	...	1
100 employees and over.....	5	2	...	1	...	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
Crawford:																					
1 to 19 employees.....	42	27	1	...	...	6	1	...	4	1	...	...	...	...	...	...	1	...	...	...	1
20 to 99 employees.....	6	2	...	...	...	2	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...
Dane:																					
1 to 19 employees.....	193	54	...	...	5	12	6	...	45	6	...	2	1	6	3	17	20	3	4	3	6
20 to 99 employees.....	48	20	1	...	1	...	1	...	7	4	...	...	...	2	1	5	3	...	1	...	2
100 employees and over.....	20	6	...	1	...	...	...	1	2	1	...	...	...	1	1	2	2	1	1	1	...
Dodge:																					
1 to 19 employees.....	110	63	1	...	...	2	...	...	13	2	...	...	2	6	1	8	7	...	2	...	3
20 to 99 employees.....	28	16	...	...	1	1	1	1	1	...	1	...	...	1	2	3	1	...	...	...	...
100 employees and over.....	13	4	...	...	...	...	...	...	...	...	...	...	2	...	1	4	1	1	...	...	...
Door:																					
1 to 19 employees.....	20	13	...	...	...	1	...	...	1	...	...	...	...	...	...	1	2	2	...	...	...
20 to 99 employees.....	7	4	...	...	...	...	...	...	1	...	...	...	...	...	...	1	...	...	1	...	...
100 employees and over.....	5	1	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	3	...	...
Douglas:																					
1 to 19 employees.....	32	5	...	...	1	14	...	1	6	...	1	...	...	1	1	...	...	1	...	...	1
20 to 99 employees.....	17	7	...	...	...	3	...	...	1	...	3	...	...	...	...	1	1	...	1	...	...
100 employees and over.....	5	1	...	...	...	...	1	...	1	...	...	...	...	...	...	...	1	...	1	...	...
Dunn:																					
1 to 19 employees.....	33	14	...	...	...	6	...	...	6	...	...	...	...	2	1	2	2	...	...	...	...
20 to 99 employees.....	7	6	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1
Eau Claire:																					
1 to 19 employees.....	47	15	...	...	...	5	1	1	5	4	...	...	...	2	...	2	5	...	2	...	5
20 to 99 employees.....	20	12	...	...	...	...	...	...	3	...	...	...	...	1	...	1	2	...	1	...	...
100 employees and over.....	10	2	...	...	...	...	...	4	1	...	...	1	...	...	...	1	...	...	...	...	1





Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954—Continued  
(Counties and size classes in which no manufacturing establishments were reported are omitted)

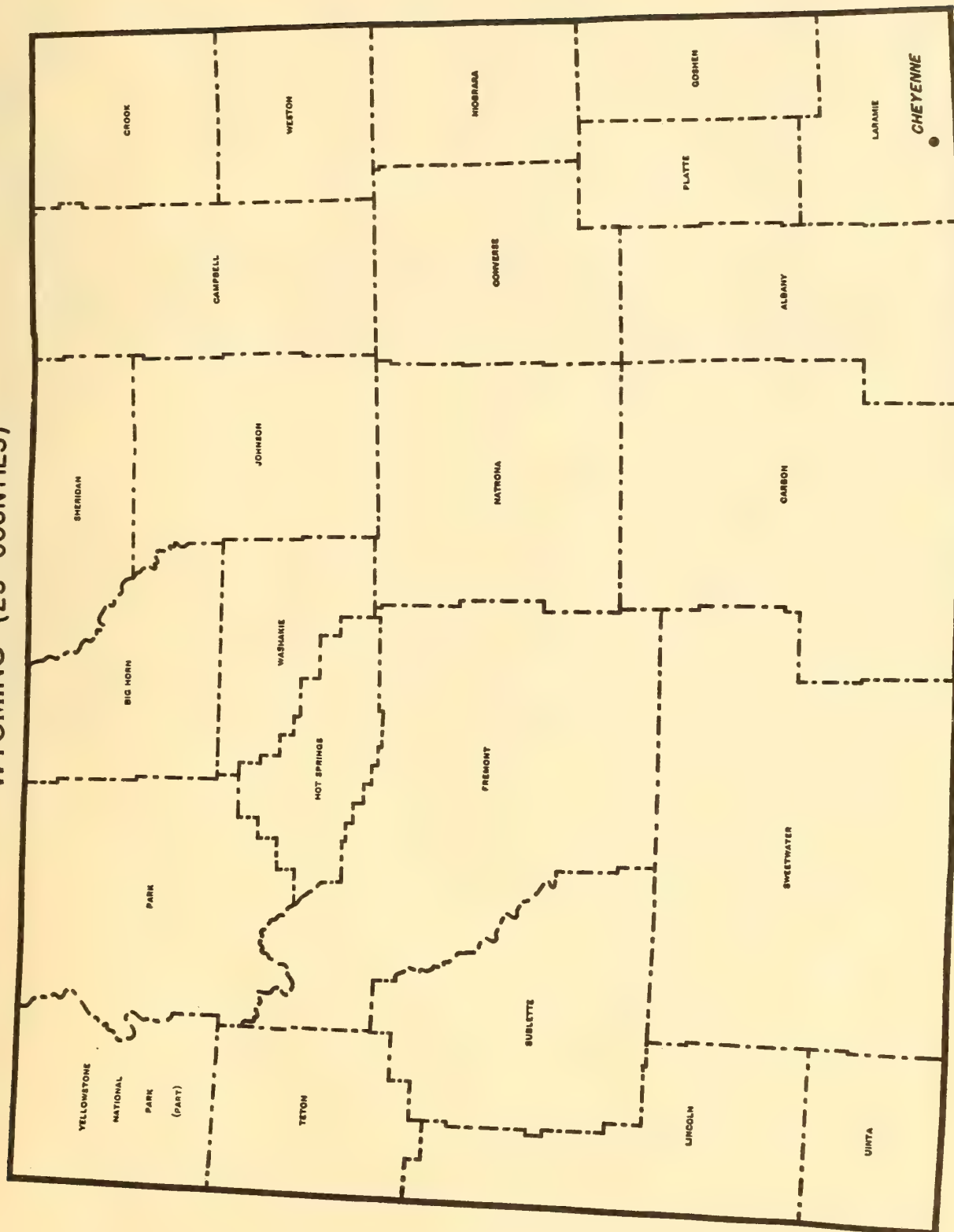
State, county, and size class	Establishments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Outagamie:																					
1 to 19 employees.....	109	50	...	2	1	9	3	5	12	2	...	...	...	6	...	8	8	1	1	...	1
20 to 99 employees.....	35	13	...	1	...	4	2	5	2	...	...	...	...	...	4	2	...	1	...	...	1
100 employees and over.....	28	3	...	2	...	...	1	12	1	...	...	...	...	...	2	...	3	2	...	...	2
Ozaukee:																					
1 to 19 employees.....	49	16	...	1	2	...	4	1	5	1	...	1	1	3	3	4	6	1	...	...	...
20 to 99 employees.....	22	3	...	1	1	...	...	...	...	1	...	1	2	...	4	2	4	2	...	...	1
100 employees and over.....	14	2	...	...	...	1	1	...	...	...	...	...	2	...	2	...	5	1	...	...	...
Pepin:																					
1 to 19 employees.....	12	3	...	...	...	5	...	...	1	...	...	...	...	2	...	...	...	1	...	...	...
20 to 99 employees.....	3	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
Pierce:																					
1 to 19 employees.....	24	7	...	...	...	7	...	...	6	...	...	...	...	1	1	...	2	...	...	...	...
20 to 99 employees.....	3	2	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Polk:																					
1 to 19 employees.....	33	14	...	...	...	7	1	...	8	...	...	...	...	2	...	1	...	...	...	...	...
20 to 99 employees.....	13	8	...	...	...	2	...	...	1	...	...	...	...	...	...	...	...	...	1	...	1
Portage:																					
1 to 19 employees.....	40	15	...	...	...	12	4	...	2	1	...	...	...	1	...	1	2	...	...	1	1
20 to 99 employees.....	10	4	...	...	...	...	...	1	2	...	...	...	...	...	...	...	...	...	...	...	3
100 employees and over.....	7	...	...	...	...	1	2	3	...	...	...	...	...	...	...	...	...	...	...	...	1
Price:																					
1 to 19 employees.....	49	13	...	...	...	30	...	...	3	...	...	...	...	...	...	1	...	...	1	...	1
20 to 99 employees.....	8	1	...	...	...	4	...	2	...	...	...	...	...	...	...	...	...	...	...	...	1
100 employees and over.....	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
Racine:																					
1 to 19 employees.....	201	15	...	...	4	3	2	2	17	3	...	...	6	12	11	36	60	12	2	5	11
20 to 99 employees.....	63	10	...	...	2	1	2	1	2	...	...	4	1	...	9	9	15	6	...	...	1
100 employees and over.....	39	2	...	1	2	...	...	...	2	1	...	...	2	...	3	5	11	4	2	...	4
Richland:																					
1 to 19 employees.....	44	29	...	...	...	7	...	...	5	1	...	...	...	...	...	...	...	...	...	...	2
20 to 99 employees.....	4	2	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...
Rock:																					
1 to 19 employees.....	77	17	...	...	3	3	1	3	19	1	...	1	...	2	...	6	17	1	2	...	1
20 to 99 employees.....	23	6	1	2	2	...	1	1	...	...	...	...	...	2	2	5	...	1	...	...	...
100 employees and over.....	24	1	...	1	...	1	...	...	2	...	...	...	2	...	...	6	4	4	1	...	2
Rusk:																					
1 to 19 employees.....	21	8	...	...	...	4	...	1	4	...	...	...	...	...	1	1	1	...	1	...	...
20 to 99 employees.....	5	...	...	1	...	2	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
St. Croix:																					
1 to 19 employees.....	27	10	...	...	...	2	...	...	7	1	...	...	...	2	...	1	2	1	1	...	...
20 to 99 employees.....	6	2	...	...	1	...	...	1	...	...	...	...	...	...	...	2	...	...	...	...	...
100 employees and over.....	3	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
Sauk:																					
1 to 19 employees.....	59	20	...	1	1	13	1	...	8	1	...	...	...	2	...	...	7	3	1	1	...
20 to 99 employees.....	14	7	...	2	1	...	...	...	...	...	...	...	...	1	1	...	...	1	...	...	1
100 employees and over.....	4	...	...	1	...	...	...	...	...	1	...	...	...	...	...	...	2	...	...	...	...
Sawyer:																					
1 to 19 employees.....	28	3	...	...	...	13	...	...	3	...	...	...	...	2	...	...	2	...	3	...	2
20 to 99 employees.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Shawano:																					
1 to 19 employees.....	90	44	...	...	3	37	...	...	5	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	7	1	...	...	4	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	7	1	...	...	5	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sheboygan:																					
1 to 19 employees.....	150	57	...	1	6	8	14	1	12	5	1	1	2	7	7	5	17	1	...	...	5
20 to 99 employees.....	57	17	...	...	...	5	2	4	5	...	1	...	2	1	4	4	4	...	...	...	8
100 employees and over.....	31	3	...	1	1	2	5	1	...	1	...	...	5	1	...	4	2	1	1	...	3
Taylor:																					
1 to 19 employees.....	34	8	...	...	...	21	...	...	2	...	...	...	...	1	...	...	...	...	...	...	2
20 to 99 employees.....	4	2	...	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Trempealeau:																					
1 to 19 employees.....	28	14	...	...	...	4	...	...	6	1	...	...	1	1	...	...	1	...	...	...	...
20 to 99 employees.....	10	7	...	...	...	2	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
100 employees and over.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Vernon:																					
1 to 19 employees.....	40	22	...	...	...	9	...	...	5	...	...	...	...	2	...	...	1	...	...	...	1
20 to 99 employees.....	4	3	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Vilas:																					
1 to 19 employees.....	25	1	...	...	...	20	...	...	1	...	...	...	...	2	...	...	...	...	...	...	1
20 to 99 employees.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
Walworth:																					
1 to 19 employees.....	57	7	...	...	...	3	1	...	9	3	...	...	1	3	1	13	7	1	1	1	6
20 to 99 employees.....	24	5	...	...	1	...	1	...	1	...	...	...	3	3	1	2	...	3	...	...	4
100 employees and over.....	6	...	...	1	...	...	...	...	...	...	...	...	...	...	2	...	1	...	...	1	1
Washburn:																					
1 to 19 employees.....	18	2	...	...	...	11	...	...	2	...	...	...	...	...	...	1	...	...	2	...	...
20 to 99 employees.....	2	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
Washington:																					
1 to 19 employees.....	57	23	...	...	1	6	1	1	3	2	...	...	1	3	...	4	8	...	3	...	1
20 to 99 employees.....	15	6	...	...	...	...	...	...	...	...	...	...	1	1	1	1	4	1	...	...	...
100 employees and over.....	11	2	...	...	...	...	...	...	...	...	...	...	3	...	...	3	2	...	1	...	...

## MANUFACTURES—AREA STATISTICS

Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954—Continued  
 (Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establish- ments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Waukesha:																					
1 to 19 employees.....	175	11	...	1	...	8	7	2	5	8	...	...	2	24	11	26	55	4	...	2	9
20 to 99 employees.....	50	13	...	...	1	2	3	2	4	2	1	1	...	3	3	2	9	1	...	...	1
100 employees and over.....	18	2	...	...	...	...	...	...	...	...	...	...	1	...	4	4	5	...	...	1	1
Waupaca:																					
1 to 19 employees.....	99	45	...	...	1	19	5	...	8	...	...	...	...	6	1	3	8	1	1	...	1
20 to 99 employees.....	12	3	...	1	...	1	...	2	1	...	...	...	...	1	...	1	1	...	1	...	...
100 employees and over.....	4	1	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
Waushara:																					
1 to 19 employees.....	21	10	...	...	...	4	1	...	3	...	...	...	...	1	1	...	1	...	...	...	...
20 to 99 employees.....	2	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
100 employees and over.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Winnebago:																					
1 to 19 employees.....	142	50	...	1	3	6	3	2	22	5	...	...	...	6	3	10	18	3	...	4	6
20 to 99 employees.....	64	17	...	2	...	1	1	10	9	1	1	1	2	1	1	8	7	1	1	...	...
100 employees and over.....	34	...	...	2	2	5	2	10	1	...	1	...	1	...	2	...	2	1	3	...	2
Wood:																					
1 to 19 employees.....	79	39	...	...	1	12	4	...	4	1	...	...	...	5	1	2	5	1	1	...	3
20 to 99 employees.....	17	8	...	...	1	1	...	...	3	1	...	...	...	...	...	2	...	...	...	1	1
100 employees and over.....	16	...	...	...	...	2	...	9	...	...	...	...	1	...	...	2	...	...	1	...	1

# WYOMING (23 COUNTIES)



## LEGEND

● PLACES OF 25,000 TO 100,000

★ PLACES OF 100,000 AND OVER



STANDARD METROPOLITAN AREAS - NONE



## MANUFACTURES—AREA STATISTICS

Table 1.—MANUFACTURING EMPLOYMENT AT OPERATING ESTABLISHMENTS AND CENTRAL ADMINISTRATIVE OFFICES AND AUXILIARIES FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS

(This table includes data for all manufacturing employees including those located in central administrative offices and auxiliaries. Tables 2-7 in this report include data for operating establishments only. For explanation of column captions see Introduction)

State standard metropolitan areas, and year <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	(Number)	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
Wyoming:						
1954.....	6,261	26,890	6,228	26,774	33	116
1953 <sup>2</sup> .....	7,213	33,601	6,981	32,293	232	1,308
1952 <sup>2</sup> .....	5,469	23,806	5,469	23,806	( <sup>3</sup> )	( <sup>3</sup> )
1951 <sup>2</sup> .....	5,874	21,709	5,874	21,709	( <sup>3</sup> )	( <sup>3</sup> )
1950 <sup>2</sup> .....	7,099	22,834	7,082	22,734	17	100
1949 <sup>2</sup> .....	6,255	20,453	6,233	20,353	22	100
Standard metropolitan areas (None in this State)						

<sup>1</sup>Employment data for administrative offices and auxiliaries on a State basis are not available for the years prior to 1949.<sup>2</sup>The employment figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period. The employment figures for administrative and auxiliary units were compiled chiefly from Bureau of Old-Age and Survivors Insurance records and are not strictly comparable with the figures for these units that were collected by the Bureau of the Census for the year 1954.<sup>3</sup>Data for Central Administrative Offices and Auxiliaries included with employment and payrolls at operating manufacturing establishments.

## WYOMING

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Table 2.—GENERAL STATISTICS FOR THE STATE AND ITS STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Year	Establish- ments, number	All employees		Production workers		Value added by manufacture (\$1,000)	
		Number	Payroll (\$1,000)	Number	Wages (\$1,000)		
WYOMING							
1954 <sup>1</sup> .....	328     } (NA) {	6,228	26,774	4,587	18,777	51,361	
1953 <sup>2</sup> .....		6,981	32,293	5,516	23,233	54,099	
1952 <sup>2</sup> .....		5,469	23,806	4,241	17,346	38,094	
1951 <sup>2</sup> .....		5,874	21,709	4,938	16,429	37,245	
1950 <sup>2</sup> .....		7,082	22,734	6,083	18,308	37,739	
1949 <sup>2</sup> .....		6,233	20,353	5,152	16,349	29,513	
1947.....		256	5,607	16,696	4,285	12,291	34,957
1939.....		300	4,416	6,641	3,351	4,613	15,336
1937.....		235	4,619	6,930	3,795	5,219	16,101
1935.....		209	3,854	5,459	3,172	4,072	12,600
1933.....	160	(NA)	(NA)	3,833	5,005	8,720	
1931.....	205	(NA)	(NA)	4,808	7,879	15,488	
1929.....	248	7,154	12,544	6,258	10,255	33,628	
1927.....	229	(NA)	(NA)	5,577	9,066	21,627	
1925.....	224	(NA)	(NA)	6,333	10,526	31,911	
1923.....	246	(NA)	(NA)	7,510	12,502	40,937	
1921.....	254	(NA)	(NA)	7,254	13,890	31,926	
1919.....	437	7,108	12,227	6,271	10,587	38,142	
1914.....	331	3,384	2,826	2,970	2,295	5,638	
1909.....	268	3,130	2,392	2,867	2,081	3,641	
1904.....	169	2,013	1,467	1,834	1,261	2,222	
1899.....	139	2,147	1,300	2,060	1,209	1,899	
STANDARD METROPOLITAN AREAS (None in this State)							

NA Not available.

<sup>1</sup>The 1954 figures include data for establishments engaged in the processing and distribution of fluid milk, Industry Group 202, Dairy Products. These establishments were not included in the figures for the Annual Survey years 1949-1953 or earlier Census years. In addition, the 1954 Census and Annual Survey years include data for Logging Camps and Contractors, Industry 2411, which were not included within the scope of the 1947 Census. See footnotes to Table 4 for comparable 1954 and 1947 totals. There were also a number of changes in the definition of manufacturing industries during earlier Census years that affect the comparability of the historical series. Among the more important of these were: figures for 1935 and later years exclude data for "Railroad repair shops" and "Manufactured gas" which were included in 1899-1933 figures; the minimum size of establishment included for 1954 and 1947 was one employee, for 1939-1921 manufacturing establishments reporting value of shipments of \$5,000 or more were within scope whereas for 1919 and earlier years the cutoff was \$500. (This change in procedure has not appreciably affected the comparability of the historical data except for the figures on number of establishments.)

<sup>2</sup>The employment and payroll figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments.

## MANUFACTURES--AREA STATISTICS

Table 3.--GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS, COUNTIES, AND URBAN PLACES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Area, county, and place	Popula- tion, 1950	1954								1947	
		Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (\$1,000)	Wages (\$1,000)				
Wyoming, total.....	290,529	328	6,228	26,774	4,587	9,160	18,777	51,361	6,899	( <sup>1</sup> )	( <sup>1</sup> )
STANDARD METROPOLITAN AREAS (None in this State)											
COUNTIES											
Albany.....	19,055	22	553	2,075	459	975	1,680	3,621	136	603	2,177
Big Horn.....	13,176	14	249	1,011	208	422	799	2,357	278	417	3,197
Campbell.....	4,839	4	11	34	8	14	24	96	4	(D)	(D)
Carbon.....	15,742	19	771	(D)	640	(D)	(D)	(D)	(D)	693	(D)
Converse.....	5,933	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	104	1,455
Crook.....	4,738	20	75	178	64	113	142	337	41	127	395
Fremont.....	19,580	20	170	628	126	273	481	917	85	116	566
Goshen.....	12,634	17	287	1,091	231	452	853	2,917	187	264	1,930
Hot Springs.....	5,250	8	81	450	60	132	247	1,224	54	72	(D)
Johnson.....	4,707	12	77	263	64	121	199	453	29	70	367
Laramie.....	47,662	37	840	3,551	439	872	1,992	6,489	559	569	4,953
Lincoln.....	9,023	12	130	317	111	200	249	376	156	60	308
Natrona.....	31,437	34	1,728	8,927	1,284	2,497	6,264	14,566	4,534	1,287	7,363
Niobrara.....	4,701	5	37	111	28	56	89	249	9	23	94
Park.....	15,182	14	334	1,640	200	428	799	1,462	256	218	(D)
Platte.....	7,925	9	34	72	22	42	51	132	5	22	101
Sheridan.....	20,185	30	(D)	(D)	(D)	(D)	(D)	(D)	(D)	515	2,601
Sublette.....	2,481	9	31	70	29	41	62	59	17	(D)	(D)
Sweetwater.....	22,017	6	60	254	31	67	137	376	16	56	314
Teton.....	2,593	8	31	88	27	52	62	150	15	17	50
Uinta.....	7,331	5	13	28	10	19	22	47	5	54	(D)
Washakie.....	7,252	8	230	922	179	408	696	1,867	103	212	1,127
Weston.....	6,733	7	30	85	24	47	65	152	8	96	417
Yellowstone National Park (part).....	353	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...	...
CITIES WITH 10,000 INHAB- ITANTS OR MORE											
Casper.....	23,673	30	1,188	6,001	879	1,709	4,176	10,048	3,950	1,020	(D)
Cheyenne.....	31,935	33	833	3,538	434	862	1,979	6,470	556	(D)	(D)
Laramie.....	15,581	15	245	893	194	391	684	1,392	37	178	553
Rock Springs.....	10,857	3	35	158	15	36	69	191	3	(NA)	(NA)
Sheridan.....	11,500	21	(D)	(D)	(D)	(D)	(D)	(D)	(D)	364	1,724

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>The 1947 data are not strictly comparable with the figures shown for 1954 due to differences in coverages of loggers and fluid milk distributors.  
See discussion in Introduction and footnotes to Table 4.



Table 4.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954 AND 1947  
(For explanation of column captions see Introduction)

Ind. code	Industry	1954									1947		
		Establishments, number		All employees		Production workers			Value added by manufacture	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture
		Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
	All industries, total <sup>1</sup> ...	328	49	6,228	26,774	4,587	9,160	18,777	51,361	( <sup>2</sup> )	6,899	( <sup>3</sup> )	( <sup>3</sup> )
20	Food and kindred products..	106	14	1,392	4,680	1,007	2,058	3,207	9,536	( <sup>2</sup> )	629	( <sup>3</sup> )	( <sup>3</sup> )
201	Meat products.....	17	1	109	379	79	155	260	781	( <sup>2</sup> )	79	(D)	(D)
202	Dairy products.....	33	6	393	1,263	243	505	696	2,046	( <sup>2</sup> )	265	( <sup>3</sup> )	( <sup>3</sup> )
2027	Fluid milk and other products..	19	5	281	965	171	362	514	1,676	5,791	166	( <sup>3</sup> )	( <sup>3</sup> )
205	Bakery products.....	30	30	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2051	Bread and related products....	30	2	249	649	179	350	451	1,143	2,476	32	288	1,128
208	Beverages.....	16	1	128	455	81	139	220	949	( <sup>2</sup> )	113	225	1,397
22	Textile mill products.....	1	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...	...
23	Apparel and related products.....	3	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...	...
24	Lumber and wood products...	103	10	908	2,954	841	1,626	2,584	4,515	( <sup>2</sup> )	324	( <sup>3</sup> )	( <sup>3</sup> )
2421	Sawmills and planing mills...	80	8	740	2,321	692	1,321	2,068	3,592	5,619	253	689	2,656
25	Furniture and fixtures.....	4	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
26	Pulp, paper and products...	1	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...	...
27	Printing and publishing....	53	8	613	2,367	316	594	1,319	3,896	( <sup>2</sup> )	122	486	2,209
2711	Newspapers.....	39	7	510	1,991	235	447	1,012	3,290	4,146	83	386	1,849
28	Chemicals and products.....	3	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	25	33
29	Petroleum and coal products	12	10	2,622	14,002	1,852	3,649	9,544	28,620	128,015	5,371	2,230	18,363
2911	Petroleum refining.....	12	10	2,622	14,002	1,852	3,649	9,544	28,620	128,015	5,371	2,230	18,363
31	Leather and leather goods..	1	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
32	Stone, clay and glass products.....	14	2	361	1,444	302	701	1,166	2,704	( <sup>2</sup> )	263	330	1,489
34	Fabricated metal products..	8	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
35	Machinery, except electrical.....	8	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	124	752
36	Electrical machinery.....	1	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
37	Transportation equipment...	2	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
38	Instruments and related products.....	3	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...	...
39	Miscellaneous manufactures.	5	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>In order to avoid disclosing figures for individual companies, the statistics for some industries (4-digit) and industry groups (3-digit) are not shown. Industries and industry groups reporting less than 100 employees are also omitted. They are included, however, in the appropriate major industry group (2-digit) lines and the "all industries" line.

<sup>2</sup>The total value of shipments figures for industry groups and a few individual industries have not been published due to the extensive and unmeasurable duplication arising from shipments from one establishment to another in the same industry classification. (See Introduction.)

<sup>3</sup>Comparable data are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude establishments in S.I.C. Industry 2411, Logging Camps and Contractors, which are included in the scope of the 1954 Census; the 1947 Census also excludes plants processing and distributing fluid milk which in 1954 were classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Code	Industry	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	All industries except subgroups 202 and 2411, total.....	5,827	49,100	5,528	34,623
20	Food and kindred products except subgroup Dairy products.....	999	7,490	1,300	7,500
24	Lumber and wood products except Industry 2411, Logging camps and contractors.....	900	4,300	900	3,566

Table 5.—GENERAL STATISTICS FOR STANDARD METROPOLITAN AREAS WITH 40,000 OR MORE MANUFACTURING EMPLOYEES, BY INDUSTRY GROUPS: 1954 AND 1947  
(This State contained no standard metropolitan area with 40,000 or more manufacturing employees in 1954 or 1947)

Table 6.—GENERAL STATISTICS FOR PRINCIPAL INDUSTRIAL COUNTIES (THOSE WITH 20,000 OR MORE MANUFACTURING EMPLOYEES), BY MAJOR INDUSTRY GROUPS: 1954 AND 1947

(This State contained no county with 20,000 or more manufacturing employees in 1954 and 1947)

## MANUFACTURES—AREA STATISTICS

Table 7.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954

20 Food and kindred products	26 Pulp, paper and products	32 Stone, clay, and glass products	38 Instruments and related products
21 Tobacco manufactures	27 Printing and publishing	33 Primary metal industries	39 Miscellaneous manufactures (Includes Group 19)
22 Textile mill products	28 Chemicals and products	34 Fabricated metal products	Ordnance and accessories)
23 Apparel and related products	29 Petroleum and coal products	35 Machinery, except electrical	
24 Lumber and wood products	30 Rubber products	36 Electrical machinery	
25 Furniture and fixtures	31 Leather and leather goods	37 Transportation equipment	

(Counties and size classes in which no manufacturing establishments were reported are omitted)

State, county, and size class	Establish- ments, total	Number of establishments by major industry group (see headnote for titles)																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Wyoming, total.....	328	106	...	1	3	103	4	1	53	3	12	...	1	14	...	8	8	1	2	3	5
1 to 4 employees.....	163	34	...	1	3	72	4	...	28	1	...	...	1	6	...	4	3	...	1	1	4
5 to 9 employees.....	78	36	...	...	...	16	...	1	12	2	...	...	...	4	...	1	3	...	...	...	1
10 to 19 employees.....	38	22	...	...	...	5	...	...	5	...	...	...	...	2	...	1	1	1	1	...	...
20 to 49 employees.....	29	10	...	...	...	7	...	...	6	...	1	...	...	1	...	2	1	...	...	1	...
50 to 99 employees.....	8	2	...	...	...	2	...	...	...	3	...	...	...	...	...	...	...	...	...	1	...
100 to 249 employees.....	8	2	...	...	...	1	...	...	2	...	2	...	...	1	...	...	...	...	...	...	...
250 to 499 employees.....	3	...	...	...	...	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...
500 to 999 employees.....	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
Albany:																					
1 to 19 employees.....	16	4	...	...	...	7	...	...	3	...	...	...	...	...	...	1	1	...	...	...	...
19 to 99 employees.....	5	1	...	...	...	3	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Big Horn:																					
1 to 19 employees.....	10	2	...	...	...	2	...	...	3	...	1	...	...	...	...	...	1	...	1	...	...
20 to 99 employees.....	4	1	...	...	...	1	...	...	...	...	1	...	...	1	...	...	...	...	...	...	...
Campbell:																					
1 to 19 employees.....	4	2	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...
Carbon:																					
1 to 19 employees.....	15	1	...	...	...	11	...	...	1	...	...	...	...	1	...	1	...	...	...	...	...
20 to 99 employees.....	2	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	2	...	...	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...
Converse:																					
1 to 19 employees.....	6	2	...	...	...	1	...	...	2	...	...	...	...	...	...	...	1	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...
Crook:																					
1 to 19 employees.....	20	...	...	...	...	19	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Fremont:																					
1 to 19 employees.....	18	10	...	...	...	6	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Goshen:																					
1 to 19 employees.....	15	7	...	...	...	1	...	...	4	...	...	...	...	2	...	...	1	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hot Springs:																					
1 to 19 employees.....	7	5	...	...	...	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...
Johnson:																					
1 to 19 employees.....	11	2	...	...	...	8	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Laramie:																					
1 to 19 employees.....	29	12	...	1	1	1	...	1	5	...	...	...	...	2	...	...	1	...	...	1	4
20 to 99 employees.....	6	3	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	...	1	...
100 employees and over.....	2	...	...	...	...	...	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...
Lincoln:																					
1 to 19 employees.....	10	2	...	...	...	5	...	...	2	...	...	...	...	...	...	...	...	...	1	...	...
20 to 99 employees.....	2	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Natrona:																					
1 to 19 employees.....	26	12	...	...	1	1	1	...	4	1	...	...	...	3	...	1	1	...	...	...	1
20 to 99 employees.....	4	2	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1	...
100 employees and over.....	4	...	...	...	...	...	...	...	1	...	3	...	...	...	...	...	...	...	...	...	...
Niobrara:																					
1 to 19 employees.....	5	2	...	...	...	...	...	...	2	...	1	...	...	...	...	...	...	...	...	...	...
Park:																					
1 to 19 employees.....	12	6	...	...	...	2	2	...	2	...	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...
Platte:																					
1 to 19 employees.....	9	3	...	...	...	3	...	...	2	1	...	...	...	...	...	...	...	...	...	...	...
Sheridan:																					
1 to 19 employees.....	25	10	...	...	1	3	1	...	3	...	...	...	1	3	...	2	...	1	...	...	...
20 to 99 employees.....	5	2	...	...	...	1	...	...	1	...	...	...	...	...	...	1	...	...	...	...	...
Sublette:																					
1 to 19 employees.....	9	...	...	...	...	8	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Sweetwater:																					
1 to 19 employees.....	5	2	...	...	...	1	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Teton:																					
1 to 19 employees.....	8	...	...	...	...	6	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
Uinta:																					
1 to 19 employees.....	5	1	...	...	...	3	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Washakie:																					
1 to 19 employees.....	6	4	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
20 to 99 employees.....	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
100 employees and over.....	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Weston:																					
1 to 19 employees.....	7	3	...	...	...	2	...	...	1	...	...	...	...	...	...	1	...	...	...	...	...
Yellowstone National Park:																					
1 to 19 employees.....	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...







# ALASKA

150-1

## ALASKA

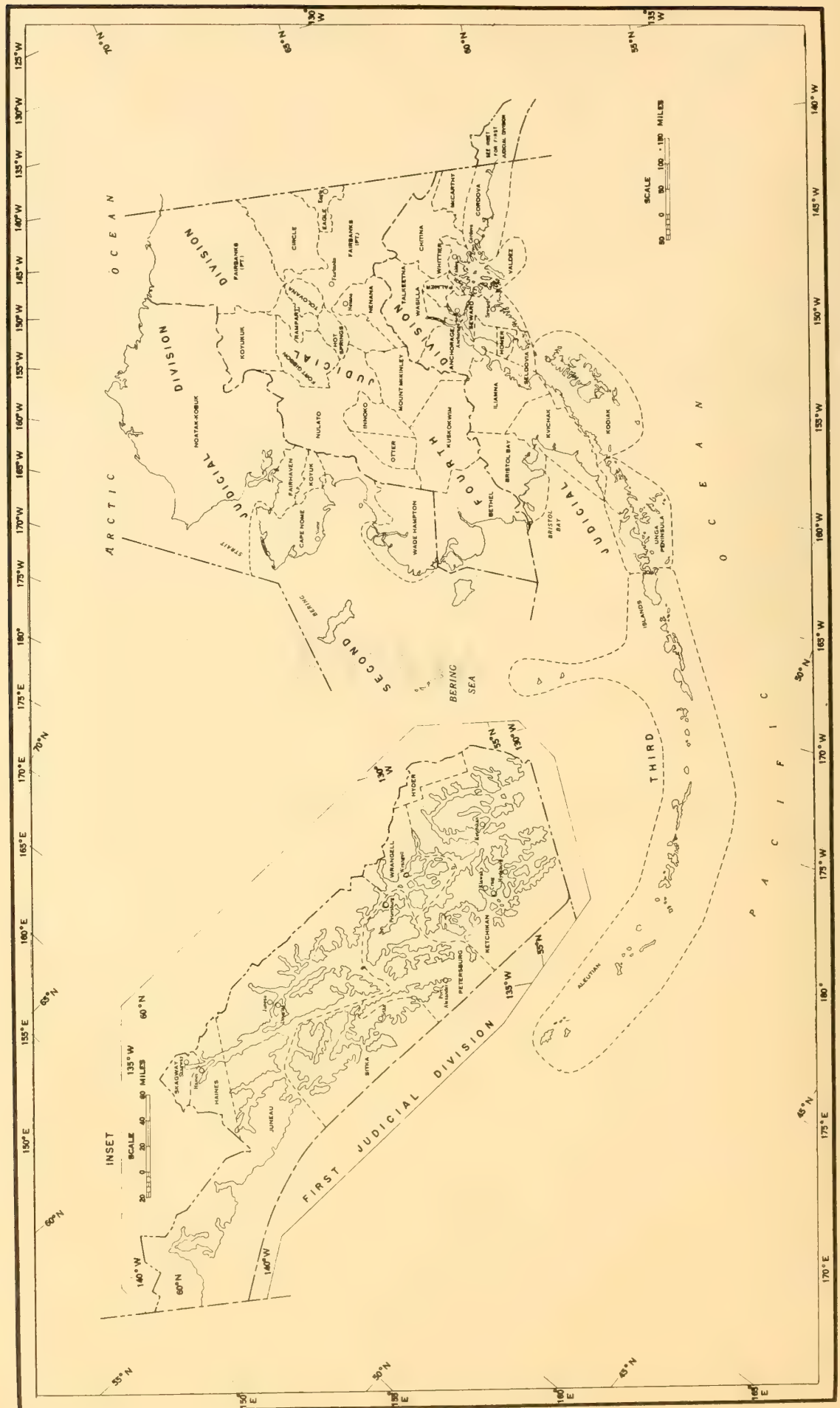




Table 1.—GENERAL STATISTICS FOR ALL MANUFACTURING INDUSTRIES: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Year <sup>1</sup>	Establishments, number	Proprietors and firm members, number	All employees <sup>2</sup>		Production workers			Value added by manufacture (\$1,000)
			Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>3</sup>	Man-hours (1,000)	Wages (\$1,000)	
1954.....	219	223	4,092	20,365	3,531	7,048	16,546	40,235
1939 <sup>4</sup> .....	230	151	5,467	8,032	4,816		6,883	17,899
1919.....	147	55	7,316	10,896	6,575		8,839	22,013
1909.....	152	135	3,479	2,328	3,099	(NA)	1,948	6,220
1904.....	82	31	2,164	1,417	1,938		1,096	4,503
1899.....	48	(NA)	(NA)	1,492	2,260		1,375	2,432

NA Not available.

<sup>1</sup>The minimum size of establishments included for 1954 was one employee; for 1939, manufacturing establishments reporting value of shipments of \$2,000 or more were within scope; for 1919 and earlier years the cutoff was \$500 or more value of shipments. (This change in procedure has not appreciably affected the comparability of the historical data except for the figures on number of establishments.)

<sup>2</sup>In addition to data shown for operating establishments, manufacturers reported 26 employees at central administrative offices and auxiliary units with \$226 thousand payroll in 1954.

<sup>3</sup>For 1954, employment figures are based on employment for the payroll periods ended nearest the 15th of March, May, August and November. However, for seasonal industries such as canned seafood a different method was used for 1954: All employees represent the average of 12 monthly figures, and production workers were calculated by subtracting from the all employees total the average number of nonproduction employees for March, May, August and November. For earlier years, the production worker average was an average of 12 monthly figures, but the figure for all employees represents the sum of the annual average number of production workers and the number of nonproduction workers reported for one payroll period (usually in October).

<sup>4</sup>The figures for 1939 cover the 12 months ended September 30, 1939.

Table 2.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954

(For explanation of column captions see Introduction)

Code	Industry group and industry <sup>1</sup>	1954										
		Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials etc. (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	Proprietors and firm members
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
	Alaska, total.....	219	4,092	20,365	3,531	7,048	16,546	40,235	( <sup>2</sup> )	( <sup>2</sup> )	17,216	223
20	Food and kindred products.....	105	2,596	11,836	2,345	4,651	10,127	29,940	( <sup>2</sup> )	( <sup>2</sup> )	(D)	79
202	Dairy products.....	4	31	184	15	22	98	470	( <sup>2</sup> )	( <sup>2</sup> )	(D)	3
203	Canned and frozen foods.....	80	2,308	10,373	2,136	4,213	9,117	26,950	( <sup>2</sup> )	( <sup>2</sup> )	546	45
2031	Canned seafood.....	73	2,202	9,943	2,037	4,079	8,750	25,816	30,397	56,213	447	34
2051	Bread and related products.....	13	208	955	167	355	749	1,704	1,465	3,169	(D)	21
23	Apparel and related products.....	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
24	Lumber and wood products.....	55	612	2,903	572	985	2,646	4,099	( <sup>2</sup> )	( <sup>2</sup> )	(D)	73
242	Lumber and basic products.....	28	325	1,535	301	507	1,363	2,375	( <sup>2</sup> )	( <sup>2</sup> )	(D)	24
25	Furniture and fixtures.....	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
26	Pulp, paper and products.....	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
27	Printing and publishing.....	23	295	1,615	166	394	943	2,650	( <sup>2</sup> )	( <sup>2</sup> )	(D)	27
2711	Newspapers.....	15	248	1,456	145	357	842	2,439	487	2,926	(D)	10
28	Chemicals and products.....	6	53	439	35	124	289	807	( <sup>2</sup> )	( <sup>2</sup> )	(D)	2
31	Leather and leather goods.....	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
32	Stone, clay, and glass products..	4	12	36	10	14	23	64	( <sup>2</sup> )	( <sup>2</sup> )	(D)	5
33	Primary metal industries.....	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
34	Fabricated metal products.....	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
35	Machinery, except electrical.....	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...	(D)
37	Transportation equipment.....	8	48	235	44	83	209	331	( <sup>2</sup> )	( <sup>2</sup> )	(D)	13
39	Miscellaneous manufactures.....	5	11	56	9	16	39	117	( <sup>2</sup> )	( <sup>2</sup> )	(D)	8

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>General statistics for some industries are not shown separately in the table (see Introduction "Confidentiality of Data for Individual Companies.") Such industries are shown below with the number of establishments in each industry for 1954 and, in parentheses, the employment size range for the industry: Ice cream and ices, 2 (1-19); Fluid milk and other products, 2 (20-99); Cured fish, 1 (1-19); Packaged seafood, 6 (100-249); Bottled soft drinks, 7 (20-99); Manufactured ice, 1 (1-19); Fur goods, 1 (1-19); Textile products, n.e.c., 1 (1-19); Logging camps and contractors, 24 (100-249); Sawmills and planing mills, 27 (250-499); Shingle mills, 1 (1-19); Millwork plants, 1 (1-19); Prefabricated wood products, 1 (1-19); Mattresses and bedsprings, 1 (1-19); Partitions and fixtures, 1 (1-19); Pulp mills, 1 (250-499); Periodicals, 1 (20-99); Commercial printing, 6 (1-19); Lithographing, 1 (1-19); Animal oils, n.e.c., 4 (20-99); Compressed and liquefied gases, 1 (1-19); Chemical products, n.e.c., 1 (1-19); Footwear, except rubber, 1 (1-19); Brick and hollow tile, 1 (1-19); Concrete products, 3 (1-19); Nonferrous foundries, 1 (1-19); Structural and ornamental work, 1 (1-19); Boiler shop products, 2 (1-19); Sheet-metal work, 2 (1-19); Machines Shops, 1 (1-19); Ship building and repairing, 1 (20-99); Boat building and repairing, 7 (1-10); Jewelry (precious metal), (1-19); Signs and advertising displays, 4 (1-19).

<sup>2</sup>The total cost of materials and value of shipments for industry groups have not been published because of the extensive duplication arising from shipments from one establishment to another in the same industry classification.

Table 3.—DETAILED STATISTICS FOR SPECIFIED

(For explanation of items

	Item	All industries, total	Food and kindred products 20	Dairy products 202	Canned and frozen foods 203	Canned seafood 2031
ALL ESTABLISHMENTS						
1	Number of establishments, total.....	219	105	4	80	73
2	With 1-19 employees.....	151	50	4	30	26
3	With 20-99 employees.....	65	54	...	49	46
4	With 100 or more employees.....	3	1	...	1	1
All employees:						
5	Number <sup>1</sup> .....	4,092	2,596	31	2,308	2,202
6	Payroll.....\$1,000..	20,365	11,836	184	10,373	9,943
Production workers:						
7	Number <sup>1</sup> .....	3,531	2,345	15	2,136	2,037
8	Man-hours.....1,000..	7,048	4,651	22	4,213	4,079
9	Wages.....\$1,000..	16,546	10,127	98	9,117	8,750
10	Value added by manufacture.....do....	40,235	29,940	470	26,950	25,816
11	Value added by resales.....do....	226	175	4	151	148
12	Capital expenditures, new.....do....	17,216	(D)	(D)	(D)	(D)
Manufacturers' inventories:						
13	Beginning of year.....do....	14,231	13,459	53	13,081	12,908
14	End of year.....do....	18,424	13,487	54	13,098	12,902
Number of employees for selected months:						
15	March.....	2,013	920	27	643	596
16	May.....	4,437	2,963	34	2,667	2,526
17	August.....	7,222	5,503	33	5,206	5,070
18	November.....	2,696	998	30	716	616
ESTABLISHMENTS REPORTING DETAILED STATISTICS						
19	Number of establishments, total.....	111	73	2	63	59
20	With 1-19 employees.....	46	21	2	15	14
21	With 20-99 employees.....	62	51	...	47	44
22	With 100 or more employees.....	3	1	...	1	1
All employees:						
23	Number <sup>1</sup> .....	3,570	2,362	(D)	2,167	2,067
24	Payroll.....\$1,000..	18,508	11,074	(D)	10,029	9,606
Production workers:						
25	Number <sup>1</sup> .....	3,061	2,140	(D)	2,011	1,921
26	Man-hours.....1,000..	6,162	4,188	(D)	3,930	3,804
27	Wages.....\$1,000..	14,929	9,393	(D)	8,746	8,386
28	All other employees, force account, etc.....number..	509	222	(D)	156	146
29	Value added by manufacture.....\$1,000..	36,604	26,726	(D)	24,643	23,546
30	Value added by resales.....do....	207	171	(D)	149	148
Manufacturers' inventories:						
31	Beginning of year, total.....do....	13,837	12,529	(D)	12,262	12,189
32	Finished products.....do....	6,040	5,589	(D)	5,539	5,484
33	Work-in-process.....do....	93	34	(D)	28	28
34	Materials, supplies, fuels, etc. (raw materials).....do....	7,704	6,906	(D)	6,695	6,677
35	End of year, total.....do....	17,603	12,917	...	12,643	12,454
36	Finished products.....do....	7,681	6,941	(D)	6,905	6,719
37	Work-in-process.....do....	82	40	(D)	33	33
38	Raw materials.....do....	9,840	5,936	(D)	5,705	5,702
Cost and quantity of fuels and electric energy:						
39	Fuels consumed, total value.....\$1,000..	774	438	(D)	395	391
Coal:						
40	Quantity.....1,000 short tons..	1	1	(D)	1	1
41	Value.....\$1,000..	7	7	(D)	7	7
Coke:						
42	Quantity.....1,000 short tons..	...	...	(D)	...	...
43	Value.....\$1,000..	...	...	(D)	...	...
Fuel oils:						
44	Quantity.....1,000 short tons..	98	60	(D)	56	55
45	Value.....\$1,000..	458	278	(D)	248	244
46	Other fuels, value.....do....	309	153	(D)	140	140
Purchased electric energy:						
47	Quantity.....million kwh..	32	6	(D)	4	3
48	Cost.....\$1,000..	153	95	(D)	64	58

See footnotes at end of table.

INDUSTRY GROUPS AND INDUSTRIES: 1954

in stub see Introduction)

Bread and related products 2051	Lumber and wood products 24	Lumber and basic products 242	Printing and publishing 27	Newspapers 2711	Chemicals and products 28	Stone, clay, and glass products 32	Transportation equipment 37	Miscellaneous manufactures 39	
13	55	28	23	15	6	4	8	5	1
8	51	25	17	10	6	4	7	5	2
5	3	2	6	5	...	...	1	...	3
...	1	1	...	...	...	...	...	...	4
208	612	325	295	248	53	12	48	11	5
955	2,903	1,535	1,615	1,456	439	36	235	56	6
167	572	301	166	145	35	10	44	9	7
355	985	507	394	357	124	14	83	16	8
749	2,646	1,363	943	842	289	23	209	39	9
1,704	4,099	2,375	2,650	2,439	807	64	331	117	10
20	11	9	23	2	...	1	12	...	11
(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	12
175	512	321	...	...	28	5	94	17	13
191	553	250	...	...	23	13	104	19	14
206	487	243	292	244	36	3	43	10	15
209	626	346	292	245	30	11	49	10	16
212	705	366	304	258	119	23	50	12	17
205	630	345	292	245	27	11	50	12	18
5	19	9	8	7	4	1	2	...	19
1	14	6	2	2	4	1	1	...	20
4	4	2	6	5	...	...	1	...	21
...	1	1	...	...	...	...	...	...	22
136	490	265	248	215	(D)	(D)	(D)	...	23
654	2,482	1,309	1,395	1,320	(D)	(D)	(D)	...	24
103	458	247	121	114	(D)	(D)	(D)	...	25
211	774	410	278	269	(D)	(D)	(D)	...	26
469	2,253	1,159	735	718	(D)	(D)	(D)	...	27
33	32	18	143	117	(D)	(D)	(D)	...	28
1,138	3,285	1,956	2,281	2,235	(D)	(D)	(D)	...	29
20	7	5	2	2	...	...	(D)	...	30
139	452	265	...	...	(D)	(D)	(D)	...	31
...	239	125	...	...	(D)	(D)	(D)	...	32
...	36	...	...	...	...	...	...	...	33
139	177	140	...	...	(D)	(D)	(D)	...	34
150	430	179	...	...	...	(D)	(D)	...	35
3	249	114	...	...	(D)	(D)	(D)	...	36
...	36	...	...	...	...	(D)	...	...	37
147	145	65	...	...	15	(D)	(D)	...	38
25	88	19	13	11	(D)	...	(D)	...	39
...	...	...	...	...	...	(D)	...	...	40
...	...	...	...	...	...	...	...	...	41
...	...	...	...	...	...	...	...	...	42
...	...	...	...	...	...	...	...	...	43
3	7	(2)	2	2	(D)	...	(D)	...	44
22	42	9	9	9	(D)	...	(D)	...	45
3	46	10	4	2	...	...	...	...	46
1	3	1	1	1	(D)	...	(D)	...	47
21	34	11	20	18	(D)	...	(D)	...	48



## MANUFACTURES—AREA STATISTICS

Table 3.—DETAILED STATISTICS FOR SPECIFIED INDUSTRY GROUPS AND INDUSTRIES: 1954

(For explanation of items in stub see Introduction)

Item	All industries, total	Food and kindred products 20	Dairy products 202	Canned and frozen foods 203	Canned seafood 2031	Bread and related products 2051	Lumber and wood products 24
ESTABLISHMENTS REPORTING DETAILED STATISTICS--Continued							
Horsepower rating of power equipment at end of 1954:							
Horsepower of prime movers and electric motors driven by purchased energy, total.....	37	24	(D)	23	23	( <sup>3</sup> )	4
Engines, etc., driving generators.....1,000 hp..	19	11	(D)	11	11	...	1
Engines, etc., not driving generators.....do....	11	8	(D)	8	8	...	2
Electric motors driven by purchased energy.....do....	7	5	(D)	4	4	( <sup>3</sup> )	1
Electric motors driven by energy generated at the establishment.....do....	14	4	(D)	4	4	( <sup>3</sup> )	3
Water use, number of establishments reporting—							
Water intake, total for year:							
20 million gallons or more.....	11	9	...	9	9	...	1
10-19 million gallons.....	12	9	...	9	9	...	1
1-9 million gallons.....	29	25	(D)	23	23	...	2
Less than 1 million gallons.....	59	30	(D)	22	18	5	15
Source of water:							
Public water systems.....	42	29	(D)	23	20	2	5
Company surface water systems.....	59	40	(D)	37	36	2	12
Company ground water systems.....	10	4	(D)	3	3	1	2
Type of water:							
Fresh.....	89	54	(D)	44	41	5	18
Brackish.....	...	...	(D)	...	...	...	...
Both.....	22	19	(D)	19	18	...	1
	Lumber and basic products 242	Printing and publishing 27	Newspapers 2711	Chemicals and products 28	Stone, clay, and glass products 32	Transportation equipment 37	Miscellaneous manufactures 39
ESTABLISHMENTS REPORTING DETAILED STATISTICS--Continued							
Horsepower rating of power equipment at end of 1954:							
Horsepower of prime movers and electric motors driven by purchased energy, total.....	3	( <sup>3</sup> )	( <sup>3</sup> )	(D)	...	...	...
Engines, etc., driving generators.....1,000 hp..	1	...	...	(D)	...	...	...
Engines, etc., not driving generators.....do....	1	...	...	...	...	...	...
Electric motors driven by purchased energy.....do....	1	( <sup>3</sup> )	( <sup>3</sup> )	(D)	(D)	(D)	...
Electric motors driven by energy generated at the establishment.....do....	2	...	...	(D)	...	...	...
Water use, number of establishments reporting—							
Water intake, total for year:							
20 million gallons or more.....	...	...	...	...	...	...	...
10-19 million gallons.....	1	...	...	(D)	...	...	...
1-9 million gallons.....	...	...	...	(D)	...	(D)	...
Less than 1 million gallons.....	8	8	7	(D)	(D)	(D)	...
Source of water:							
Public water systems.....	4	5	4	...	...	(D)	...
Company surface water systems.....	3	...	...	(D)	...	(D)	...
Company ground water systems.....	2	3	3	...	(D)	...	...
Type of water:							
Fresh.....	8	8	7	(D)	(D)	(D)	...
Brackish.....	...	...	...	...	...	...	...
Both.....	1	...	...	(D)	...	(D)	...

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>Average employment based on data reported for four selected periods ended nearest the 15th of March, May, August and November except for seasonal industries which are based on twelve monthly figures.<sup>2</sup>Less than 500 tons.<sup>3</sup>Less than 500 HP.

Table 4.—GENERAL STATISTICS FOR ESTABLISHMENTS CLASSIFIED BY TYPE OF OPERATION AND LEGAL ORGANIZATION, BY MAJOR INDUSTRY GROUP: 1954

Ind. Code	Major industry group	All estab- lish- ments	Type of operation <sup>1</sup>						Type of ownership or control <sup>1</sup>				
			Multiunit			Single unit			Corpo- rate	Noncorporate			
			Total	Corpo- rate owner- ship or control	Noncor- porate owner- ship	Total	Corpo- rate owner- ship or control	Noncor- porate owner- ship		Total	Indi- vidual	Part- ner- ship	Other <sup>2</sup>
	All industries total:												
	Number of establishments.....	219	39	37	2	180	68	112	105	114	63	49	2
	Total employees.....	4,092	1,750	(D)	(D)	2,335	(D)	(D)	3,301	784	241	(D)	(D)
	Total payroll.....\$1,000..	20,365	8,662	(D)	(D)	11,703	(D)	(D)	17,478	2,887	804	(D)	(D)
	Production workers.....	3,531	1,618	(D)	(D)	1,913	(D)	(D)	2,834	697	230	(D)	(D)
	Production worker wages.....\$1,000..	16,546	7,570	(D)	(D)	8,976	(D)	(D)	14,038	2,508	755	(D)	(D)
	Value added by manufacture.....\$1,000..	40,235	19,793	(D)	(D)	20,442	(D)	(D)	32,056	8,176	1,995	(D)	(D)
20	Food and kindred products:												
	Number of establishments.....	105	31	29	2	74	36	38	65	40	19	19	2
	Total employees.....	2,596	1,349	(D)	(D)	1,247	(D)	(D)	2,098	498	143	(D)	(D)
	Total payroll.....\$1,000..	11,836	6,460	(D)	(D)	5,376	(D)	(D)	10,163	1,673	443	(D)	(D)
	Production workers.....	2,345	1,270	(D)	(D)	1,075	(D)	(D)	1,899	446	133	(D)	(D)
	Production worker wages.....\$1,000..	10,127	5,733	(D)	(D)	4,394	(D)	(D)	8,715	1,412	396	(D)	(D)
	Value added by manufacture.....\$1,000..	29,940	16,953	(D)	(D)	12,987	(D)	(D)	24,064	5,876	1,273	(D)	(D)
23	Apparel and related products:												
	Number of establishments.....	2	...	...	...	2	1	1	1	1	...	1	...
	Total employees.....	(D)	...	...	...	(D)	(D)	(D)	(D)	(D)	...	(D)	...
	Total payroll.....\$1,000..	(D)	...	...	...	(D)	(D)	(D)	(D)	(D)	...	(D)	...
	Production workers.....	(D)	...	...	...	(D)	(D)	(D)	(D)	(D)	...	(D)	...
	Production worker wages.....\$1,000..	(D)	...	...	...	(D)	(D)	(D)	(D)	(D)	...	(D)	...
	Value added by manufacture.....\$1,000..	(D)	...	...	...	(D)	(D)	(D)	(D)	(D)	...	(D)	...
24	Lumber and wood products:												
	Number of establishments.....	55	6	6	...	49	10	39	16	39	22	17	...
	Total employees.....	612	(D)	(D)	...	(D)	(D)	169	443	169	62	107	...
	Total payroll.....\$1,000..	2,903	(D)	(D)	...	(D)	(D)	649	2,254	649	196	453	...
	Production workers.....	572	(D)	(D)	...	(D)	(D)	162	410	162	61	101	...
	Production worker wages.....\$1,000..	2,646	(D)	(D)	...	(D)	(D)	635	2,011	635	194	441	...
	Value added by manufacture.....\$1,000..	4,099	(D)	(D)	...	(D)	(D)	1,269	2,830	1,269	367	902	...
25	Furniture and fixtures:												
	Number of establishments.....	2	...	...	...	2	...	2	...	2	1	1	...
	Total employees.....	(D)	...	...	...	(D)	...	(D)	...	(D)	(D)	(D)	...
	Total payroll.....\$1,000..	(D)	...	...	...	(D)	...	(D)	...	(D)	(D)	(D)	...
	Production workers.....	(D)	...	...	...	(D)	...	(D)	...	(D)	(D)	(D)	...
	Production worker wages.....\$1,000..	(D)	...	...	...	(D)	...	(D)	...	(D)	(D)	(D)	...
	Value added by manufacture.....\$1,000..	(D)	...	...	...	(D)	...	(D)	...	(D)	(D)	(D)	...
26	Pulp, paper, and products:												
	Number of establishments.....	1	...	...	...	1	1	...	1	...	...	...	...
	Total employees.....	(D)	...	...	...	(D)	(D)	...	(D)	...	...	...	...
	Total payroll.....\$1,000..	(D)	...	...	...	(D)	(D)	...	(D)	...	...	...	...
	Production workers.....	(D)	...	...	...	(D)	(D)	...	(D)	...	...	...	...
	Production worker wages.....\$1,000..	(D)	...	...	...	(D)	(D)	...	(D)	...	...	...	...
	Value added by manufacture.....\$1,000..	(D)	...	...	...	(D)	(D)	...	(D)	...	...	...	...
27	Printing and publishing:												
	Number of establishments.....	23	2	2	...	21	8	13	10	13	9	4	...
	Total employees.....	295	(D)	(D)	...	(D)	(D)	56	239	56	18	38	...
	Total payroll.....\$1,000..	1,615	(D)	(D)	...	(D)	(D)	199	1,416	199	107	92	...
	Production workers.....	166	(D)	(D)	...	(D)	(D)	30	136	30	18	12	...
	Production worker wages.....\$1,000..	943	(D)	(D)	...	(D)	(D)	141	802	141	107	34	...
	Value added by manufacture.....\$1,000..	2,650	(D)	(D)	...	(D)	(D)	287	2,363	287	204	83	...
28	Chemicals and products:												
	Number of establishments.....	6	...	...	...	6	5	1	5	1	...	1	...
	Total employees.....	53	...	...	...	53	(D)	(D)	(D)	(D)	...	(D)	...
	Total payroll.....\$1,000..	439	...	...	...	439	(D)	(D)	(D)	(D)	...	(D)	...
	Production workers.....	35	...	...	...	35	(D)	(D)	(D)	(D)	...	(D)	...
	Production worker wages.....\$1,000..	289	...	...	...	289	(D)	(D)	(D)	(D)	...	(D)	...
	Value added by manufactures.....\$1,000..	807	...	...	...	807	(D)	(D)	(D)	(D)	...	(D)	...
31	Leather and leather goods:												
	Number of establishments.....	1	...	...	...	1	1	...	1	...	...	...	...
	Total employees.....	(D)	...	...	...	(D)	(D)	...	(D)	...	...	...	...
	Total payroll.....\$1,000..	(D)	...	...	...	(D)	(D)	...	(D)	...	...	...	...
	Production workers.....	(D)	...	...	...	(D)	(D)	...	(D)	...	...	...	...
	Production worker wages.....\$1,000..	(D)	...	...	...	(D)	(D)	...	(D)	...	...	...	...
	Value added by manufactures.....\$1,000..	(D)	...	...	...	(D)	(D)	...	(D)	...	...	...	...
32	Stone, clay, and glass products:												
	Number of establishments.....	4	...	...	...	4	1	3	1	3	2	1	...
	Total employees.....	12	...	...	...	12	(D)	(D)	(D)	(D)	(D)	(D)	...
	Total payroll.....\$1,000..	36	...	...	...	36	(D)	(D)	(D)	(D)	(D)	(D)	...
	Production workers.....	10	...	...	...	10	(D)	(D)	(D)	(D)	(D)	(D)	...
	Production worker wages.....\$1,000..	23	...	...	...	23	(D)	(D)	(D)	(D)	(D)	(D)	...
	Value added by manufactures.....\$1,000..	64	...	...	...	64	(D)	(D)	(D)	(D)	(D)	(D)	...

See footnotes at end of table.

## MANUFACTURES—AREA STATISTICS

Table 4.—GENERAL STATISTICS FOR ESTABLISHMENTS CLASSIFIED BY TYPE OF OPERATION AND LEGAL ORGANIZATION, BY MAJOR INDUSTRY GROUP: 1954

Ind. Code	Major industry group	All estab- lish- ments	Type of operation <sup>1</sup>						Type of ownership or control <sup>1</sup>				
			Multiunit			Single unit			Corpo- rate	Noncorporate			
			Total	Corpo- rate owner- ship or control	Noncor- porate owner- ship	Total	Corpo- rate owner- ship or control	Noncor- porate owner- ship		Total	Indi- vidual	Part- ner- ship	Other <sup>2</sup>
33	Primary metal industries:												
	Number of establishments.....	1	...	...	...	1	...	1	...	1	...	1	...
	Total employees.....	(D)	...	...	...	(D)	...	(D)	...	(D)	...	(D)	...
	Total payroll.....\$1,000..	(D)	...	...	...	(D)	...	(D)	...	(D)	...	(D)	...
	Production workers.....	(D)	...	...	...	(D)	...	(D)	...	(D)	...	(D)	...
	Production worker wages.....\$1,000..	(D)	...	...	...	(D)	...	(D)	...	(D)	...	(D)	...
	Value added by manufacture.....\$1,000..	(D)	...	...	...	(D)	...	(D)	...	(D)	...	(D)	...
34	Fabricated metal products:												
	Number of establishments.....	5	...	...	...	5	2	3	2	3	3	...	...
	Total employees.....	18	...	...	...	18	(D)	(D)	(D)	(D)	(D)	...	...
	Total payroll.....\$1,000..	184	...	...	...	184	(D)	(D)	(D)	(D)	(D)	...	...
	Production workers.....	15	...	...	...	15	(D)	(D)	(D)	(D)	(D)	...	...
	Production worker wages.....\$1,000..	72	...	...	...	72	(D)	(D)	(D)	(D)	(D)	...	...
	Value added by manufactures.....\$1,000..	373	...	...	...	373	(D)	(D)	(D)	(D)	(D)	...	...
35	Machinery (except electrical):												
	Number of establishments.....	1	...	...	...	1	...	1	...	1	1	...	...
	Total employees.....	(D)	...	...	...	(D)	...	(D)	...	1	1	...	...
	Total payroll.....\$1,000..	(D)	...	...	...	(D)	...	(D)	...	3	3	...	...
	Production workers.....	(D)	...	...	...	(D)	...	(D)	...	1	1	...	...
	Production worker wages.....\$1,000..	(D)	...	...	...	(D)	...	(D)	...	3	3	...	...
	Value added by manufactures.....\$1,000..	(D)	...	...	...	(D)	...	(D)	...	14	14	...	...
37	Transportation equipment:												
	Number of establishments.....	8	...	...	...	8	2	6	2	6	4	2	...
	Total employees.....	48	...	...	...	48	(D)	(D)	(D)	(D)	(D)	(D)	...
	Total payroll.....\$1,000..	235	...	...	...	235	(D)	(D)	(D)	(D)	(D)	(D)	...
	Production workers.....	44	...	...	...	44	(D)	(D)	(D)	(D)	(D)	(D)	...
	Production worker wages.....\$1,000..	209	...	...	...	209	(D)	(D)	(D)	(D)	(D)	(D)	...
	Value added by manufacture.....\$1,000..	331	...	...	...	331	(D)	(D)	(D)	(D)	(D)	(D)	...
39	Miscellaneous manufactures:												
	Number of establishments.....	5	...	...	...	5	1	4	1	4	2	2	...
	Total employees.....	11	...	...	...	11	(D)	(D)	(D)	(D)	(D)	(D)	...
	Total payroll.....\$1,000..	56	...	...	...	56	(D)	(D)	(D)	(D)	(D)	(D)	...
	Production workers.....	9	...	...	...	9	(D)	(D)	(D)	(D)	(D)	(D)	...
	Production worker wages.....\$1,000..	39	...	...	...	39	(D)	(D)	(D)	(D)	(D)	(D)	...
	Value added by manufactures.....\$1,000..	117	...	...	...	117	(D)	(D)	(D)	(D)	(D)	(D)	...

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>All data are based on reports for individual manufacturing establishments, and not on a company basis. Each establishment of multiestablishment companies is classified by its primary industrial activity. For this reason the statistics presented in the table cannot be compared directly with tabulations in which the whole corporation or company is the reporting unit and the entire company is classified in one industry. Establishments were classified either as units in organizations comprising two or more establishments (multiunit) or as independent plants (single unit).

<sup>2</sup>Includes cooperatives, establishments operated by estate administrators, trusteeships, receiverships, and public and quasi-public organizations.



Table 5.—QUANTITY AND VALUE OF SPECIFIED PRODUCTS SHIPPED: 1954

Product code	Product	Unit of quantity	Total shipments		
			Quantity	Value (\$1,000)	
2031011	Canned fish and other seafood.....	Thousand pounds...	122,002	49,878	
2036111	Frozen seafood.....	...do.....	17,307	3,735	
2036211	Fresh packaged seafood.....	...do.....	824	199	
2051000	Bread and other bakery products.....	...do.....	xxx	3,190	
2081000	Bottled soft drinks.....	Thousand cases.....	560	981	
24110-- 2421111 2421211	Logs, bolts, other round or hewn wood (including pulpwood, poles, piling, etc.) Rough lumber and sawed ties..... Dressed lumber <sup>1</sup> .....	Thousand bd. ft.... ...do..... ...do.....	Production for all purposes (quantity)	Total shipments  Quantity	Value (\$1,000)
			xxx	54,411	1,574
			48,917	37,306	2,884
			xxx	17,650	1,205
			Average circulation per issue  (number of copies)	Total receipts  (\$1,000)	
			53,802	607	
2711111	Daily newspapers (evening, except Sunday).....	33,912	525		
2711151	Weekly newspapers.....	19,890	82		
27112--	Newspaper advertising.....	xxx	1,807		
2711211	Daily newspapers (evening, except Sunday).....	xxx	1,291		
2711251	Weekly newspapers.....	xxx	516		
27510--	Commercial printing, letterpress and gravure <sup>2</sup> .....	xxx	662		
2889311 2889331	Fish and marine oil..... Fish cake and meal.....	Thousand pounds.... Short tons.....	Production for all purposes		
			Quantity	Value (\$1,000)	
			5,929	450	
			3,019	414	

<sup>1</sup>Includes small quantities of softwood flooring and planing mill products, n.e.c. process.

<sup>2</sup>Includes a small quantity of receipts from lithographic process.

Table 6.—MATERIALS CONSUMED BY SPECIFIED INDUSTRIES: 1954

Code	Materials	Unit of quantity	Consumption of materials	
			Quantity	Delivered cost (\$1,000)
091211	Industry 2031—Canned seafood.....	.....do.....	xxx	27,543
970000	Fin fish, round.....	Short tons.....	174,616	18,604
	All other materials and containers, and supplies consumed.....	.....do.....	xxx	8,939
202311	Industry 2051—Bread and other bakery products.....	.....do.....	xxx	805
204111	Dried milk.....	Thousand pounds....	45,599	46
206011	Wheat flour.....	Cwt.....	36,880	350
209211	Sugar (cane and beet).....	.....do.....	7,316	87
970000	Shortening.....	Thousand pounds....	77,799	84
	All other materials including materials, n.e.c., containers, and supplies.....	.....do.....	xxx	238
206011	Industry 2081—Bottled soft drinks.....	.....do.....	xxx	225
209511	Sugar (cane and beet).....	Cwt.....	8,106	87
970000	Flavoring sirups.....	.....do.....	xxx	62
	All other materials, containers, and supplies.....	.....do.....	xxx	76
081111	Industry 2411—Logging camps and contractors.....	.....do.....	xxx	303
970000	Cost of stumpage cut—exclude land value and logging cost.....	.....do.....	xxx	164
	All other materials and components, parts, containers, and supplies.....	.....do.....	xxx	139
241111	Industry 2421—Sawmills and planing mills.....	.....do.....	xxx	1,398
970000	Log and bolts.....	Thousand feet (Log scale).....	41,194	1,369
	All other materials, containers, and supplies.....	.....do.....	xxx	29
261211	Industry 2711—Newspapers.....	.....do.....	xxx	391
261217	Newsprint.....	Short tons.....	xxx	284
261251	Fine.....	.....do.....	xxx	36
264151	All other paper and board.....	.....do.....	xxx	17
970000	Coated paper, all types.....	.....do.....	xxx	9
	All other materials, containers, and supplies.....	.....do.....	xxx	45

xxx Not applicable.

## MANUFACTURES—AREA STATISTICS

Table 7.—GENERAL STATISTICS FOR JUDICIAL DIVISIONS AND URBAN PLACES: 1954 AND 1939

(For explanation of column captions see Introduction)

Division and urban place	Population 1950	1954					
		Estab- lishments  (number)	Number of establishments with—			All employees	
			1-19 employees	20-99 employees	100 and over employees	Number	Payroll (\$1,000)
Alaska, total.....	128,643	219	151	65	3	4,092	20,365
First Judicial Division.....	28,203	106	77	27	2	2,013	9,934
Second Judicial Division.....	12,272	5	4	1	...	42	100
Third Judicial Division.....	59,518	89	55	33	1	1,819	9,232
Fourth Judicial Division.....	28,650	19	15	4	...	218	1,099
Cities with 10,000 inhabitants or more:							
Anchorage.....	11,254	19	15	4	...	253	1,624
1954—Continued							1939
Production workers				Value added by manufacture	Capital expenditures, new	Total employment	Value added by manufacture
Number	Man-hours (1,000)	Wages (\$1,000)		(\$1,000)	(\$1,000)		(\$1,000)
Alaska, total.....	3,531	7,048	16,546	40,235	17,216	5,467	17,899
First Judicial Division.....	1,742	3,506	8,262	17,688	(D)	2,253	6,013
Second Judicial Division.....	31	51	88	143	(D)	24	176
Third Judicial Division.....	1,611	3,166	7,452	20,180	(D)	3,103	11,504
Fourth Judicial Division.....	147	325	744	2,224	(D)	87	206
Cities with 10,000 inhabitants or more:							
Anchorage.....	170	372	962	3,126	(D)	99	279

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

Table 8.—GENERAL STATISTICS FOR JUDICIAL DIVISIONS BY INDUSTRY GROUP AND INDUSTRY: 1954

(For explanation of column captions see Introduction)

[illegible]

See footnotes at end of table.

Table 3.—GENERAL STATISTICS FOR JUDICIAL DIVISIONS BY INDUSTRY GROUP AND INDUSTRY: 1954—Continued

(For explanation of column captions see Introduction)

Code	Area, industry group and industry	Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
	Fourth Judicial Division, total.....	19	218	1,099	147	325	744	2,224	( <sup>2</sup> )	( <sup>2</sup> )
20	Food and kindred products.....	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
23	Apparel and related products.....	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
24	Lumber and wood products.....	4	15	48	13	22	40	121	( <sup>2</sup> )	( <sup>2</sup> )
27	Printing and publishing.....	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2711	Newspapers.....	3	88	515	39	91	278	906	122	1,028
28	Chemicals and products.....	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
32	Stone, clay and glass products.....	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
39	Miscellaneous manufactures.....	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>General statistics for some industries are not shown separately for Divisions in the table (see Introduction "Confidentiality of Data for Individual Companies".) Such industries are shown below with the number of establishments in each Division for 1954 and, in parentheses, the employment-size range for the industry.

First Judicial Division:

Ice cream and ices, 1 (1-19); Fluid milk and other products, 1 (1-19); Packaged seafood, 3 (20-99); Logging camps and contractors, 22 (100-249); Plywood plants, 1 (20-99); Pulp mills, 1 (249-499); Periodicals, 1 (20-99); Commercial printing, 2 (1-19); Animal oils, nec, 3 (20-99); Nonferrous foundries, 1 (1-19); Boiler shop products, 1 (1-19); Sheet-metal work, 1 (1-19); Machine shop, 1 (1-19); Ship building and repairing, 1 (20-99); Signs and advertising displays, 1 (1-19).

Second Judicial Division:

Canned seafood, 2 (20-99); Cured fish, 1 (1-19); Newspapers, 1 (1-19); Footwear, except rubber, 1 (1-19).

Third Judicial Division:

Fluid milk and other products, 1 (1-19); Canned seafood, 38 (1,000-2,499); Packaged seafood, 3 (20-99); Bread and related products, 6 (100-249); Bottled soft drinks, 3 (20-99); Fur goods, 1 (1-19); Logging camps and contractors, 1 (1-19); Sawmills and planing mills, 12 (20-99); Millwork plants, 1 (1-19); Prefabricated wood products, 1 (1-19); Mattresses and bedsprings, 1 (1-19); Partitions and fixtures, 1 (1-19); Newspapers, 5 (100-249); Lithographing, 1 (1-19); Animal oils, nec, 1 (1-19); Chemical products, nec, 1 (1-19); Brick and hollow tile, 1 (1-19); Concrete products, 1 (1-19); Structural and ornamental works, 1 (1-19); Boiler shop products, 1 (1-19); Sheet-metal work, 1 (1-19); Boat building and repairing, 1 (1-19); Signs and advertising displays, 3 (1-19).

Fourth Judicial Division:

Ice cream and ices, 1 (1-19); Canned seafood, 1 (20-99); Bread and related products, 2 (20-99); Bottled soft drinks, 1 (1-19); Manufactured ice, 1 (1-19); Textile products, nec, 1 (1-19); Logging camps and contractors, 1 (1-19); Sawmills and planing mills, 3 (1-19); Commercial printing, 1 (1-19); Compressed and liquefied gases, 1 (1-19); Concrete products, 2 (1-19); Jewelry (precious metals), 1 (1-19).

<sup>2</sup>The total cost of materials and value of shipments for industry groups have not been published because of the extensive duplication arising from shipments from one establishment to another in the same industry classification.



## MANUFACTURES—AREA STATISTICS

Table 9.—DETAILED STATISTICS FOR JUDICIAL DIVISIONS AND URBAN PLACES: 1954

(For explanation of column captions, see Introduction)

Item	Alaska, total	Judicial divisions				Urban places (Anchorage)
		First	Second	Third	Fourth	
ALL ESTABLISHMENTS						
Number of establishments, total.....	219	106	5	89	19	19
With 1-19 employees.....	151	77	4	55	15	15
With 20-99 employees.....	65	27	1	33	4	4
With 100 or more employees.....	3	2	...	1	...	...
All employees:						
Number <sup>1</sup> .....	4,092	2,013	42	1,819	218	253
Payroll.....\$1,000..	20,365	9,934	100	9,232	1,099	1,624
Production workers:						
Number <sup>1</sup> .....	3,531	1,742	31	1,611	147	170
Man-hours.....1,000..	7,048	3,506	51	3,166	325	372
Wages.....\$1,000..	16,546	8,262	88	7,452	744	962
Value added by manufacture.....do....	40,235	17,688	143	20,180	2,224	3,126
Value added by resales.....do....	226	176	-2	50	2	5
Capital expenditures, new.....do....	17,216	(D)	(D)	(D)	(D)	(D)
Number of employees for selected months:						
March.....	2,013	1,157	40	656	160	210
May.....	4,437	2,018	70	2,028	321	237
August.....	7,222	3,140	50	3,809	223	337
November.....	2,696	1,737	8	783	168	228
ESTABLISHMENTS REPORTING DETAILED STATISTICS						
Number of establishments, total.....	111	55	2	48	6	10
With 1-19 employees.....	46	29	1	14	2	6
With 20-99 employees.....	62	24	1	33	4	4
With 100 or more employees.....	3	2	...	1	...	...
All employees:						
Number <sup>1</sup> .....	3,570	1,694	(D)	1,681	(D)	228
Payroll.....\$1,000..	18,508	8,895	(D)	8,692	(D)	1,487
Production workers:						
Number <sup>1</sup> .....	3,061	1,455	(D)	1,486	(D)	147
Man-hours.....1,000..	6,162	2,948	(D)	2,947	(D)	329
Wages.....\$1,000..	14,929	7,353	(D)	6,986	(D)	842
All other employees, force account, etc., number.....	509	239	(D)	195	(D)	81
Value added by manufacture.....\$1,000..	36,604	15,797	(D)	19,129	(D)	2,858
Value added by resales.....do....	207	158	...	43	1	5
Cost and quantity of fuels and electric energy:						
Fuels consumed, total:						
Value.....\$1,000..	774	377	(D)	378	(D)	50
Coal:						
Quantity.....1,000 short tons..	1	( <sup>2</sup> )	(D)	1	(D)	( <sup>2</sup> )
Value.....\$1,000..	7	...	(D)	7	(D)	...
Coke:						
Quantity.....1,000 short tons..	...	...	(D)	...	(D)	...
Value.....\$1,000..	...	...	(D)	...	(D)	...
Fuel oils:						
Quantity.....1,000 barrels..	98	45	(D)	50	(D)	3
Value.....\$1,000..	458	188	(D)	253	(D)	21
Other fuels:						
Value.....do....	309	189	(D)	118	(D)	15
Purchased electric energy, quantity.....million kwh..	32	28	(D)	3	(D)	1
Cost.....\$1,000..	153	75	(D)	59	(D)	23
Horsepower rating of power equipment at end of 1954:						
Horsepower of prime movers and electric motors driven by purchased energy, total.....	37	23	(D)	13	(D)	...
Engines, etc., driving generators.....1,000 hp..	19	11	(D)	8	(D)	...
Engines, etc., not driving generators.....do....	11	7	(D)	4	(D)	...
Electric motors driven by purchased energy.....do....	7	5	(D)	1	(D)	( <sup>3</sup> )

See footnotes at end of table.

(For explanation of column captions, see Introduction)

20	Food and kindred products	26	Pulp, paper and products	32	Stone, clay, and glass products	37	Transportation equipment
23	Apparel and related products	27	Printing and publishing	33	Primary metal industries	39	Miscellaneous manufactures
24	Lumber and wood products	28	Chemicals and products	34	Fabricated metal products		
25	Furniture and fixtures	31	Leather and leather goods	35	Machinery, except electrical		

[illegible]





# HAWAII

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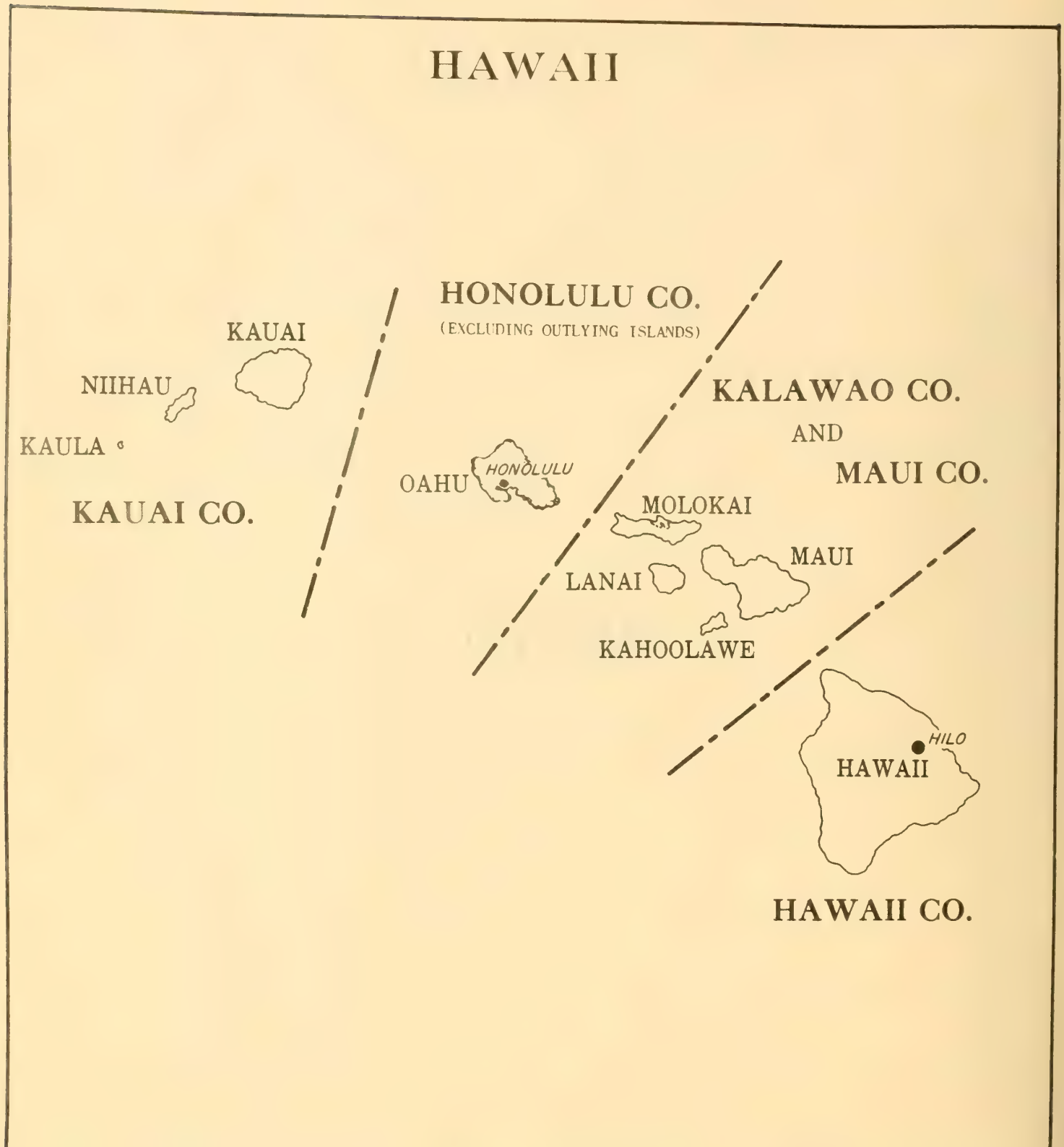


Table 1.—GENERAL STATISTICS FOR ALL MANUFACTURING INDUSTRIES: 1954 AND EARLIER YEARS  
(For explanation of column captions see Introduction)

Year <sup>1</sup>	Establishments, number	Proprietors and firm members, number	All employees <sup>2</sup>		Production workers			Value added by manufacture (\$1,000)
			Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>3</sup>	Man-hours (1,000)	Wages (\$1,000)	
1954.....	520	416	24,381	77,130	19,524	36,114	50,806	140,275
1939.....	474	320	19,518	15,319	17,002	(NA)	11,458	58,354
1919.....	496	700	11,744	8,666	9,969		6,637	51,917
1909.....	500	<sup>4</sup> 1,074	7,572	2,795	5,904		2,109	21,586
1899.....	222	244	4,418	2,038	3,655		1,473	11,103

NA Not available.

<sup>1</sup>The minimum size of establishment included for 1954 was one employee; for 1939 manufacturing establishments reporting value of shipments of \$2,000 or more were within scope; for 1919 and earlier years the cutoff was \$500 or more value of shipments. (This change in procedure has not appreciably affected the comparability of the historical data except for the figures on number of establishments.)

<sup>2</sup>In addition to data shown for operating establishments, manufacturers reported 166 employees at central administrative offices and auxiliary units with \$858 thousand payroll in 1954.

<sup>3</sup>For 1954, employment figures are based on employment for the payroll periods ended nearest the 15th of March, May, August and November. However, for seasonal industries such as "Raw cane sugar" a different method was used for 1954: All employees represent the average of 12 monthly figures, and production workers were calculated by subtracting from the all employees total the average number of nonproduction employees for March, May, August and November. For earlier years, the production worker average was an average of 12 monthly figures, but the figure for all employees represents the sum of the annual average number of production workers and the number of nonproduction workers reported for one payroll period (usually in October).

<sup>4</sup>Includes 272 members of cooperative associations not reported for 1899 or 1919.

Table 2.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954  
(For explanation of column captions see Introduction)

Code	Industry group and industry <sup>1</sup>	Establishments, number	All employees		Production and related workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	Proprietors and firm members, number
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
	Hawaii, total.....	520	24,381	77,130	19,524	36,114	50,806	140,275	( <sup>2</sup> )	( <sup>2</sup> )	11,693	416
20	Food and kindred products.....	250	19,272	60,364	15,806	28,921	40,268	105,655	( <sup>2</sup> )	( <sup>2</sup> )	10,082	187
201	Meat products.....	14	155	457	107	214	265	536	( <sup>2</sup> )	( <sup>2</sup> )	(D)	11
202	Dairy products.....	19	743	7,044	314	639	1,046	6,148	( <sup>2</sup> )	( <sup>2</sup> )	151	5
203	Canned and frozen foods.....	39	7,392	18,986	6,410	10,199	13,772	34,098	( <sup>2</sup> )	( <sup>2</sup> )	1,475	30
2033	Canned fruits and vegetables.....	19	6,858	17,717	5,939	9,438	12,828	32,612	67,761	100,373	1,359	9
205	Bakery products.....	42	882	2,765	560	1,246	1,473	5,044	( <sup>2</sup> )	( <sup>2</sup> )	257	46
206	Sugar.....	28	8,977	28,032	7,714	15,390	22,104	53,227	( <sup>2</sup> )	( <sup>2</sup> )	7,925	...
208	Beverages.....	33	656	2,256	337	639	998	4,732	( <sup>2</sup> )	( <sup>2</sup> )	144	19
2081	Bottled soft drinks.....	28	369	1,129	180	329	458	2,167	1,543	3,710	81	19
209	Miscellaneous foods.....	64	386	650	293	473	471	1,447	( <sup>2</sup> )	( <sup>2</sup> )	(D)	68
2099	Food preparations, nec....	51	305	509	223	386	364	1,121	1,863	2,984	41	57
22	Textile mill products.....	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
23	Apparel and related products...	56	998	2,240	896	1,759	1,753	3,518	( <sup>2</sup> )	( <sup>2</sup> )	127	63
232	Men's and boys' furnishings..	26	392	745	347	698	567	1,176	( <sup>2</sup> )	( <sup>2</sup> )	67	28
2321	Men's dress shirts and nightwear.....	15	256	455	231	448	360	735	843	1,578	61	17
233	Women's and misses' outerwear	14	518	1,290	473	910	1,032	1,996	( <sup>2</sup> )	( <sup>2</sup> )	57	14
2339	Women's outerwear, nec....	7	300	789	275	533	566	1,122	1,094	2,216	49	4
239	Fabricated textiles, nec....	11	26	53	26	47	53	119	( <sup>2</sup> )	( <sup>2</sup> )	1	15
2392	Housefurnishings, nec....	3	10	18	10	19	18	32	49	81	...	4
2394	Canvas products.....	5	10	21	10	17	21	45	43	88	...	7
24	Lumber and wood products.....	24	233	701	175	337	484	1,226	( <sup>2</sup> )	( <sup>2</sup> )	37	17
2421	Sawmills and planing mills...	4	20	35	14	20	26	76	45	121	...	4
2431	Millwork plants.....	4	101	365	70	128	212	589	708	1,297	21	2
2499	Wood products, nec.....	16	112	301	91	189	246	561	246	807	16	11
25	Furniture and fixtures.....	30	390	1,374	305	621	910	1,648	( <sup>2</sup> )	( <sup>2</sup> )	92	36
251	Household furniture.....	15	305	1,151	244	505	769	1,205	( <sup>2</sup> )	( <sup>2</sup> )	90	17
2511	Wood furniture, not upholstered.....	7	186	678	151	304	454	627	610	1,237	81	4
2563	Venetian blinds.....	11	65	163	50	97	108	360	320	680	(D)	16
26	Pulp, paper, and products.....	4	400	(D)	339	(D)	(D)	(D)	(D)	(D)	(D)	(D)
27	Printing and publishing.....	53	1,493	5,682	790	1,456	2,689	9,734	( <sup>2</sup> )	( <sup>2</sup> )	164	26
2711	Newspapers.....	17	1,121	4,341	536	984	1,857	6,998	2,302	9,300	113	3
2741	Miscellaneous publishing.....	3	9	19	7	11	14	44	72	116	(D)	2
2751	Commercial printing.....	16	110	261	81	135	178	442	183	625	10	11
2761	Lithographing.....	7	144	666	109	221	465	1,311	928	2,239	14	2

See footnotes at end of table.



## MANUFACTURES—AREA STATISTICS

Table 2.—GENERAL STATISTICS BY INDUSTRY GROUP AND INDUSTRY: 1954—Continued

(For explanation of column captions see Introduction)

Code	Industry group and industry <sup>1</sup>	Establishments, number	All employees		Production and related workers			Value added by manufacture	Cost of materials, etc.	Value of shipments	Capital expenditures, new	Proprietors and firm members, number
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
28	Chemicals and products.....	22	345	1,390	221	440	711	1,900	( <sup>2</sup> )	( <sup>2</sup> )	88	14
2819	Inorganic chemicals, nec.....	3	6	14	6	11	14	35	23	58	(D)	3
2893	Toilet preparations.....	4	21	66	15	23	25	138	45	183	6	2
29	Petroleum and coal products.....	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
30	Rubber products.....	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
31	Leather and leather goods.....	10	87	173	80	162	155	387	( <sup>2</sup> )	( <sup>2</sup> )	6	13
32	Stone, clay, and glass products.....	9	85	273	75	139	226	578	( <sup>2</sup> )	( <sup>2</sup> )	24	7
3271	Concrete products.....	3	67	235	60	114	195	516	229	745	12	3
33	Primary metal industries.....	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
34	Fabricated metal products.....	11	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
35	Machinery (except electrical)...	11	284	1,017	229	421	741	1,459	( <sup>2</sup> )	( <sup>2</sup> )	33	8
3599	Machine shops.....	7	196	677	152	266	480	933	506	1,439	28	4
37	Transportation equipment.....	9	86	232	70	118	154	373	( <sup>2</sup> )	( <sup>2</sup> )	11	8
39	Miscellaneous manufactures.....	19	97	259	81	139	197	348	( <sup>2</sup> )	( <sup>2</sup> )	10	20
396	Costume jewelry and notions..	6	34	88	32	59	83	123	( <sup>2</sup> )	( <sup>2</sup> )	4	6
398	Miscellaneous manufactures...	8	48	129	37	60	85	171	( <sup>2</sup> )	( <sup>2</sup> )	6	8
399	Miscellaneous products, nec.....	3	11	19	10	11	15	51	13	64	...	5

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>General statistics for some industries are not shown separately in the table (see Introduction Confidentiality of Data for Individual Companies.) Such industries are shown below with the number of establishments in each industry for 1954 and, in parentheses, the employment size range for the industry: Meat packing plants, 7 (100-249); Prepared meats, 6 (20-99); Poultry dressing plants, 1 (1-19); Ice cream and ices, 10 (100-249); Fluid milk, 2 (1-19); Fluid milk and other products, 7 (250-499); Canned seafood, 2 (250-499); Cured fish, 2 (1-19); Pickles and sauces, 15 (20-99); Frozen fruits and vegetables, 1 (1-19); Flour and meal, 1 (1-19); Prepared animal feeds, 1 (1-19); Rice milling, 2 (1-19); Bread and related products, 39 (500-999); Biscuit and crackers, 3 (100-249); Raw cane sugar, 26 (5,000-9,999); Cane sugar refining, 2 (100-249); Confectionary products, 7 (20-99); Beer and ale, 4 (100-249); Wines and brandy, 1 (1-19); Manufactured ice, 2 (1-19); Macaroni and spaghetti, 11 (20-99); Finishing textiles, except wool, 3 (20-99); Men's and boys' suits and coats, 3 (1-19); Separate trousers, 2 (20-99); Men's and boys' clothing, n.e.c., 9 (100-249); Blouses, 1 (1-19); Dresses, unit price, 5 (100-249); Women's suits, coats, and skirts, 1 (1-19); Children's dresses, 1 (1-19); Children's outerwear, n.e.c., 1 (20-99); Curtains and draperies, 1 (1-19); Textile products, n.e.c., 2 (1-19); Upholstered household furniture, 2 (1-19); Mattresses and bedsprings, 6 (100-249); Partitions and fixtures, 2 (1-19); Window shades, 2 (1-19); Building paper and board mills, 1 (249-500); Paper bags, 2 (1-19); Paper and board products, n.e.c., 1 (1-19); Periodicals, 5 (20-99); Books, publishing and printing, 2 (20-99); Greeting cards, 1 (1-19); Loose-leaf binders and devices, 1 (1-19); Photoengraving, 1 (1-19); Inorganic chemicals, n.e.c., 3 (1-19); Organic chemicals, n.e.c., 1 (1-19); Pharmaceutical preparations, 1 (1-19); Soap and glycerin, 3 (1-19); Cleaning and polishing preparations, 2 (1-19); Softwood distillation, 1 (1-19); Fertilizers, 1 (100-249); Fertilizers, mixing only, 2 (20-99); Compressed and liquefied gases, 3 (20-99); Insecticides and fungicides, 1 (1-19); Petroleum refining, 2 (20-99); Paving mixtures and blocks, 1 (20-99); Rubber industries, n.e.c., 1 (20-99); Footwear, except, rubber, 5 (20-99); House slippers, 3 (20-99); Handbags and purses, 1 (1-19); Small leather goods, 1 (1-19); Products of purchased glass, 2 (1-19); Brick and hollow tile, 1 (1-19); Vitreous-china food utensils, 1 (1-19); Nonmetallic mineral products, n.e.c., 1 (1-19); Gray-iron foundries, 1 (1-19); Tin cans and other tinware, 1 (250-499); Structural and ornamental work 2 (20-99); Plating and polishing, 4 (1-19); Lighting fixtures, 1 (1-19); Steel springs, 1 (1-19); Farm machinery (except tractors), 1 (1-19); Food-products machinery, 1 (20-99); Special-industry, n.e.c., 1 (1-19); Refrigeration machinery, 1 (1-19); Phonograph records, 1 (1-19); Truck and bus bodies, 1 (1-19); Truck trailers, 1 (20-99); Shipbuilding and repairing, 2 (20-99); Boat building and repairing, 5 (30-99); Optical instruments and lens, 1 (1-19); Surgical and medical instruments, 1 (1-19); Surgical appliances and supplies, 1 (1-19); Jewelry (precious metal), 5 (20-99); Musical instruments, 1 (1-19); Dolls, 1 (1-19); Hand stamps and stencils, 1 (1-19); Costume jewelry, 5 (20-99); Buttons, 1 (1-19); Brooms and brushes, 2 (1-19); Signs and advertising display, 3 (20-99).

<sup>2</sup>The total cost of materials and value of shipments for industry groups have not been published because of the extensive duplication arising from shipments from one establishment to another in the same industry classification.

Table 3.—DETAILED STATISTICS FOR SPECIFIED INDUSTRY GROUPS AND INDUSTRIES: 1954

(For explanation of items in stub see Introduction)

Item	All industries, total	Food and kindred products 20	Meat products 201	Dairy products 202	Canned and frozen foods 203	Canned fruits and vegetables 2033	Bakery products 205	Sugar 206	Beverages 208
All Establishments									
Number of establishments, total.....	520	250	14	19	39	19	42	28	33
With 1-19 employees.....	383	172	11	12	28	10	28	1	22
With 20-99 employees.....	88	38	3	5	1	...	12	2	10
With 100 or more employees.....	49	40	...	2	10	9	2	25	1
All employees:									
Number <sup>1</sup> .....	24,381	19,272	155	743	7,392	6,858	882	8,977	656
Payroll.....\$1,000..	77,130	60,364	457	7,044	18,986	17,717	2,765	28,032	2,256
Production workers:									
Number <sup>1</sup> .....	19,524	15,806	107	314	6,410	5,939	560	7,714	337
Man-hours.....1,000..	36,114	28,921	214	639	10,199	9,438	1,246	15,390	639
Wages.....\$1,000..	50,806	40,268	265	1,046	13,772	12,828	1,473	22,104	998
Value added by manufacture.....do....	140,275	105,655	536	6,148	34,098	32,612	5,044	53,227	4,732
Value added by resales.....do....	3,023	1,970	167	201	70	60	17	1,438	9
Capital expenditures, new.....do....	11,693	10,082	(D)	151	1,475	1,359	257	7,925	144
Manufactures' inventories:									
Beginning of year.....do....	60,387	47,994	199	788	32,167	29,591	988	12,685	843
End of year.....do....	60,462	46,288	314	819	30,117	28,158	1,127	12,678	948
Number of employees for selected months:									
March.....	22,830	17,739	151	742	5,869	5,438	871	8,978	654
May.....	22,142	17,054	152	742	5,515	4,921	867	8,640	667
August.....	29,344	24,216	151	744	12,646	11,992	888	8,620	651
November.....	23,208	18,079	166	744	5,538	5,081	902	9,670	652
Establishments Reporting Detailed Statistics									
Number of establishments, total.....	229	107	5	11	15	11	14	28	12
With 1-19 employees.....	97	32	2	4	4	2	3	1	1
With 20-99 employees.....	83	35	3	5	1	...	9	2	10
With 100 or more employees.....	49	40	...	2	10	9	2	25	1
All employees:									
Number <sup>1</sup> .....	23,135	18,627	130	713	7,296	6,817	665	8,977	522
Payroll.....\$1,000..	74,351	58,924	429	6,965	18,811	17,629	2,179	28,032	1,908
Production workers:									
Number <sup>1</sup> .....	18,454	15,272	82	291	6,316	5,900	398	7,714	245
Man-hours.....1,000..	33,929	28,014	180	600	10,058	9,368	929	15,390	476
Wages.....\$1,000..	48,593	39,170	237	989	13,607	12,750	1,048	22,104	785
All other employees, force account, etc., number.....	4,681	3,355	48	422	980	917	267	1,263	277
Value added by manufacture.....\$1,000..	134,058	102,388	435	5,869	33,719	32,470	3,752	53,227	4,025
Value added by resales.....do....	2,934	1,946	162	196	69	60	14	1,438	4
Capital expenditures, new:									
New plant.....do....	2,972	2,325	(D)	2	83	80	61	2,106	17
New equipment.....do....	8,429	7,596	(D)	118	1,373	1,263	124	5,819	113
Manufactures' inventories:									
Beginning of year, total.....do....	59,224	47,620	197	771	32,101	29,551	846	12,685	758
Finished product.....do....	36,096	31,461	175	141	26,368	24,172	38	4,534	104
Work-in-process.....do....	1,306	439	...	26	197	3	...	39	164
Materials, supplies, fuels, etc.....do....	21,822	15,720	22	604	5,536	5,376	808	8,112	490
End of year, total.....do....	59,201	45,922	309	798	30,059	28,121	1,001	12,678	871
Finished product.....do....	36,072	30,620	264	135	24,931	23,164	19	5,052	138
Work-in process.....do....	1,347	288	...	20	22	1	24	46	163
Materials, supplies, fuels, etc.....do....	21,782	15,014	45	643	5,106	4,956	958	7,580	570
Cost and quantity of fuels and electric energy:									
Fuels consumed, total value.....\$1,000..	3,703	3,315	12	63	491	470	59	2,523	31
Coal:									
Quantity.....1,000 short tons..	( <sup>2</sup> )	...	...	...	...	...	...	...	...
Value.....\$1,000..	( <sup>3</sup> )	...	...	...	...	...	...	...	...
Coke:									
Quantity.....1,000 short tons..	1	...	...	...	...	...	...	...	...
Value.....\$1,000..	28	...	...	...	...	...	...	...	...
Fuel oils:									
Quantity.....1,000 barrels..	816	800	2	7	148	142	13	617	1
Value.....\$1,000..	2,523	2,359	7	28	371	354	47	1,775	3
Gas:									
Quantity.....million cubic feet..	43	20	11	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	6	...	...
Value.....\$1,000..	35	10	1	...	1	...	4	...	...
Other fuels, value.....do....	1,117	946	4	35	119	116	8	748	28
Purchased electric energy:									
Quantity.....million kwh..	89	73	1	6	19	18	1	40	3
Cost.....\$1,000..	2,303	2,060	15	197	322	296	39	1,413	50
Horsepower rating of power equipment at end of 1954:									
Horsepower of prime movers and elec- tric motors driven by purchased energy, total.....1,000 hp..	196	166	...	...	21	20	1	140	...
Engines, etc., driving generators.....do....	111	99	( <sup>7</sup> )	...	1	1	...	98	...
Engines, etc., not driving generators.....do....	43	41	...	( <sup>7</sup> )	2	2	...	39	...
Electric motors driven by pur- chased energy.....do....	41	24	( <sup>7</sup> )	2	18	17	...	2	1

See footnotes at end of table.

## MANUFACTURES—AREA STATISTICS

Table 3.—DETAILED STATISTICS FOR SPECIFIED INDUSTRY GROUPS AND INDUSTRIES: 1954—Continued

(For explanation of items in stub see Introduction)

Item	All in- dustries, total	Food and kindred products 20	Meat products 201	Dairy products 202	Canned and frozen foods 203	Canned fruits and vegetables 2033	Bakery products 205	Sugar 206	Beverages 208
Establishments Reporting Detailed Statistics—Continued									
Horsepower rating of power equipment at end of 1954—Continued									
Electric motors driven by energy generated at the establish- ment.....1,000 hp..	116	113	...	...	1	1	1	110	...
Water intake—number of establishments reporting:									
Water intake, total for year:									
20 million gallons or more.....	42	39	...	2	9	8	...	26	1
10-19 million gallons.....	10	8	...	4	...	...	1	1	2
1-9 million gallons.....	35	25	3	4	1	1	4	1	7
Less than 1 million gallons.....	113	35	2	1	5	2	9	...	2
Source of water:									
Public water systems.....	165	73	4	8	10	7	13	4	12
Company surface water systems.....	13	13	...	...	...	...	...	13	...
Company ground water systems.....	22	21	1	3	5	4	1	11	...
Type of water:									
Fresh.....	184	24	5	11	9	7	14	24	11
Brackish.....	5	1	...	...	...	...	...	1	...
Both.....	11	10	...	...	6	4	...	3	1
Item	Bottled soft drinks 2081	Miscel- laneous foods 209	Food pre- parations, etc. 2099	Apparel and related products 23	Men's and boys' fur- nishings 232	Men's dress shirts and nightwear -2321	Women's and misses' outerwear 233	Women's outer- wear, n.e.c. 2339	Fabricated textiles, n.e.c. 239
All Establishments									
Number of establishments, total.....	28	64	51	56	26	15	14	7	11
With 1-19 employees.....	21	59	47	40	16	8	9	4	11
With 20-99 employees.....	7	5	4	14	10	7	3	2	...
With 100 or more employees.....	...	...	...	2	...	...	2	1	...
All employees:									
Number <sup>1</sup> .....	369	386	305	998	392	256	518	300	26
Payroll.....\$1,000..	1,129	650	509	2,240	745	455	1,290	789	53
Production workers:									
Number <sup>1</sup> .....	180	293	223	896	347	231	473	275	26
Man-hours.....1,000..	329	473	386	1,759	698	448	910	533	47
Wages.....\$1,000..	458	471	364	1,753	567	360	1,032	566	53
Value added by manufacture.....do....	2,167	1,447	1,121	3,518	1,176	735	1,996	1,122	119
Value added by resales.....do....	9	68	34	79	75	78	3	...	1
Capital expenditures, new.....do....	81	(D)	41	127	67	61	57	49	1
Manufactures' inventories:									
Beginning of year.....do....	472	233	185	946	429	295	465	323	17
End of year.....do....	492	217	175	1,016	416	264	549	344	16
Number of employees for selected months:									
March.....	370	409	326	974	378	256	511	295	25
May.....	373	402	328	1,009	384	256	528	309	30
August.....	366	416	333	993	406	256	505	290	22
November.....	367	317	233	1,016	400	256	528	306	27
Establishments Reporting Detailed Statistics									
Number of establishments, total.....	7	18	14	18	12	9	4	2	...
With 1-19 employees.....	...	13	11	6	5	4	...	...	...
With 20-99 employees.....	7	5	3	10	7	5	2	1	...
With 100 or more employees.....	...	...	...	2	...	...	2	1	...
All employees:									
Number <sup>1</sup> .....	235	264	205	665	232	176	...	...	...
Payroll.....\$1,000..	781	462	366	1,541	436	323	...	...	...
Production workers:									
Number <sup>1</sup> .....	85	175	127	589	195	153	...	...	...
Man-hours.....1,000..	166	291	232	1,159	390	298	...	...	...
Wages.....\$1,000..	245	294	232	1,177	302	233	...	...	...
All other employees, force account, etc., number.....	150	89	78	76	37	23	...	...	...
Value added by manufacture.....\$1,000..	1,460	938	738	2,518	729	533	...	...	...
Value added by resales.....do....	4	63	29	62	60	63	...	...	...
Capital expenditures, new:									
New plant.....do....	10	(D)	4	47	47	47	(D)	(D)	...
New equipment.....do....	57	(D)	21	53	10	8	...	...	...
Manufactures' inventories:									
Beginning of year, total.....do....	388	176	134	662	289	189	...	...	...
Finished product.....do....	80	57	34	226	131	56	...	...	...
Work-in-process.....do....	29	...	...	84	36	35	...	...	...
Materials, supplies, fuels, etc.....do....	279	119	100	352	122	98	...	...	...
End of year, total.....do....	417	146	111	668	280	175	...	...	...
Finished product.....do....	85	55	35	260	140	58	...	...	...
Work-in-process.....do....	33	1	1	77	26	25	...	...	...
Materials, supplies, fuels, etc.....do....	299	90	75	331	114	92	...	...	...

See footnotes at end of table.



Table 3.—DETAILED STATISTICS FOR SPECIFIED INDUSTRY GROUPS AND INDUSTRIES: 1954—Continued

(For explanation of items in stub see Introduction)

Item	Bottled soft drinks 2081	Miscel- laneous foods 209	Food prep- arations, etc. 2099	Apparel and related products 23	Men's and boys' fur- nishings 232	Men's dress shirts and nightwear 2321	Women's and misses' outerwear 233	Women's outer- wear, n.e.c. 2339	Fabricated textiles, n.e.c. 239
Establishments Reporting Detailed Statistics—Continued									
Cost and quantity of fuels and electric energy:									
Fuels consumed, total value.....\$1,000..	7	11	9	...	...	...			...
Coal:									
Quantity.....1,000 short tons..	...	...	...	...	...	...			...
Value.....\$1,000..	...	...	...	...	...	...			...
Coke:									
Quantity.....1,000 short tons..	...	...	...	...	...	...			...
Value.....\$1,000..	...	...	...	...	...	...			...
Fuel oils:									
Quantity.....1,000 barrels..	(4)	1	1	...	...	...			...
Value.....\$1,000..	1	5	5	...	...	...			...
Gas:									
Quantity.....million cubic feet..	...	2	2	...	...	...			...
Value.....\$1,000..	...	4	3	...	...	...			...
Other fuels, value.....do....	7	2	1	...	...	...			...
Purchased electric energy:									
Quantity.....million kwh..	1	1	...	5	4	4			...
Cost.....\$1,000..	14	19	10	17	9	7			...
Horsepower rating of power equipment at end of 1954:									
Horsepower of prime movers and elec- tric motors driven by purchased energy, total.....1,000 hp..	...	...	...	...	...	...			...
Engines, etc., driving generators.....do....	...	(7)	(7)	...	...	...	(D)	(D)	...
Engines, etc., not driving generators.....do....	...	...	...	...	...	...			...
Electric motors driven by pur- chased energy.....do....	(7)	(7)	(7)	...	...	...			...
Electric motors driven by energy generated at the establish- ment.....do....	...	...	...	...	...	...			...
Water intake number of establishments reporting:									
Water intake, total for year:									
20 million gallons or more.....	...	...	...	...	...	...			...
10-19 million gallons.....	...	...	...	...	...	...			...
1-9 million gallons.....	5	5	4	...	...	...			...
Less than 1 million gallons.....	2	13	10	...	...	...			...
Source of water:									
Public water systems.....	7	18	14	...	...	...			...
Company surface water systems.....	...	...	...	...	...	...			...
Company ground water systems.....	...	...	...	...	...	...			...
Type of water:									
Fresh.....	7	18	14	...	...	...			...
Brackish.....	...	...	...	...	...	...			...
Both.....	...	...	...	...	...	...			...
Item	Housefur- nishings, n.e.c. 2392	Canvas products 2394	Lumber and wood prod- ucts 24	Sawmills and plan- ing mills 2421	Millwork plants 2431	Wood products, n.e.c. 2499	Furniture and fixtures 25	Household furniture 251	Wood furniture, not up- holstered 2511
All Establishments									
Number of establishments, total.....	3	5	24	4	4	16	30	15	7
With 1-19 employees.....	3	5	22	4	3	15	24	9	3
With 20-99 employees.....	...	...	2	...	1	1	6	3	4
With 100 or more employees.....	...	...	...	...	...	...	...	3	...
All employees:									
Number <sup>1</sup> .....	10	10	233	20	101	112	390	305	186
Payroll.....\$1,000..	18	21	701	35	365	301	1,374	1,151	678
Production workers:									
Number <sup>1</sup> .....	10	10	175	14	70	91	305	244	151
Man-hours.....1,000..	19	17	337	20	128	189	621	505	304
Wages.....\$1,000..	18	21	484	26	212	246	910	769	454
Value added by manufacture.....do....	32	45	1,226	76	589	561	1,648	1,205	627
Value added by resales.....do....	...	...	3	...	...	3	467	455	419
Capital expenditures, new.....do....	...	...	37	...	21	16	92	90	81
Manufactures' inventories:									
Beginning of year.....do....	3	12	435	16	347	72	603	475	254
End of year.....do....	4	10	347	17	259	71	672	540	298
Number of employees for selected months:									
March.....	10	10	257	18	123	116	380	296	182
May.....	11	11	218	24	85	109	392	303	183
August.....	8	9	217	18	93	106	385	303	183
November.....	11	10	240	20	103	117	403	318	196

See footnotes at end of table.

## MANUFACTURES—AREA STATISTICS

Table 3.—DETAILED STATISTICS FOR SPECIFIED INDUSTRY GROUPS AND INDUSTRIES: 1954—Continued  
(For explanation of items in stub see Introduction)

Item	Housefurnishings, n.e.c. 2392	Canvas products 2394	Lumber and wood prod- ucts 24	Sawmills and plan- ing mills 2421	Millwork plants 2431	Wood products, n.e.c. 2499	Furniture and fixtures 25	Household furniture 251	Wood furniture, not up- holstered 2511
Establishments Reporting Detailed Statistics									
Number of establishments, total.....	...	...	8	2	1	5	13	7	4
With 1-19 employees.....	...	...	6	2	...	4	7	1	...
With 20-99 employees.....	...	...	2	...	1	1	6	6	4
With 100 or more employees.....	...	...	...	...	...	...	...	...	...
All employees:									
Number <sup>1</sup> .....	...	...	152			64	344	279	
Payroll.....\$1,000..	...	...	530			203	1,245	1,070	
Production workers:									
Number <sup>1</sup> .....	...	...	107			49	259	218	
Man-hours.....1,000..	...	...	224			118	540	456	
Wages.....\$1,000..	...	...	347			161	781	688	
All other employees, force account, etc., number.....	...	...	45			15	85	61	
Value added by manufacture.....\$1,000..	...	...	869			362	1,334	1,039	
Value added by resales.....do....	...	...	1			1	458	455	
Capital expenditures, new:									
New plant.....do....	...	...	6			6	49	49	
New equipment.....do....	...	...	22			8	34	33	
Manufactures' inventories:									
Beginning of year, total.....do....	...	...	323			27	524	445	
Finished product.....do....	...	...	18			16	185	183	
Work-in-process.....do....	...	...	40			1	58	58	
Materials, supplies, fuels, etc.....do....	...	...	265			10	281	204	
End of year, total.....do....	...	...	237			32	591	510	
Finished product.....do....	...	...	16			14	195	193	
Work-in-process.....do....	...	...	13			2	98	97	
Materials, supplies, fuels, etc.....do....	...	...	208			16	298	220	
Cost and quantity fuels and electric energy:									
Fuels consumed, total value.....\$1,000..	...	...	6			3	8	...	
Coal:									
Quantity.....1,000 short tons..	...	...	...			...	...	...	
Value.....\$1,000..	...	...	...			...	...	...	
Coke:									
Quantity.....1,000 short tons..	...	...	...			...	...	...	
Value.....\$1,000..	...	...	...			...	...	...	
Fuel oils:									
Quantity.....1,000 barrels..	...	...	1			1	...	...	
Value.....\$1,000..	...	...	5	(D)	(D)	2	...	...	(D)
Gas:									
Quantity.....million cubic ft..	...	...	...			...	...	...	
Value.....\$1,000..	...	...	...			...	...	...	
Other fuels, value.....do....	...	...	1			1	8	8	
Purchased electric energy:									
Quantity.....million kwh..	...	...	(6)			(6)	(6)	447	
Cost.....\$1,000..	...	...	12			5	16	14	
Horsepower rating of power equipment at end of 1954:									
Horsepower of prime movers and elec- tric motors driven by purchased energy, total.....1,000 hp..	...	...	...			...	1	...	
Engines, etc., driving generators.....do....	...	...	...			...	...	...	
Engines, etc., not driving generators.....do....	...	...	...			...	...	...	
Electric motors driven by pur- chased energy.....do....	...	...	(7)			(7)	1	894	
Electric motors driven by energy generated at the establishment...do....	...	...	...			...	...	...	
Water intake number of establishments reporting:									
Water intake, total for year:									
20 million gallons or more.....	...	...	...			...	...	...	
10-19 million gallons.....	...	...	...			...	...	...	
1-9 million gallons.....	...	...	...			...	1	1	
Less than 1 million gallons.....	...	...	8			5	12	5	
Source of water:									
Public water systems.....	...	...	8			5	13	7	
Company surface water systems.....	...	...	...			...	...	...	
Company ground water systems.....	...	...	...			...	...	...	
Type of water:									
Fresh.....	...	...	8			5	13	7	
Brackish.....	...	...	...			...	...	...	
Both.....	...	...	...			...	...	...	

See footnotes at end of table.

Table 3.—DETAILED STATISTICS FOR SPECIFIED INDUSTRY GROUPS AND INDUSTRIES: 1954—Continued

(For explanation of items in stub see Introduction)

Item	Venetian blinds 2563	Printing and pub- lishing 27	News- papers 2711	Miscel- laneous publishing 2741	Commercial printing 2751	Litho- graphing 2761	Chemicals and products 28	Inorganic chemicals, n.e.c. 2819	Toilet prepara- tions 2893
All Establishments									
Number of establishments, total.....	11	53	17	3	16	7	22	3	4
With 1-19 employees.....	11	40	10	3	16	3	17	3	4
With 20-99 employees.....	...	10	4	...	...	4	4	...	...
With 100 or more employees.....	...	3	3	...	...	...	1	...	...
All employees:									
Number.....	65	1,493	1,121	9	110	144	345	6	21
Payroll.....\$1,000..	163	5,682	4,341	19	261	666	1,390	14	66
Production workers:									
Number.....	50	790	536	7	81	109	221	5	15
Man-hours.....	97	1,456	984	11	135	221	440	11	23
Wages.....\$1,000..	108	2,689	1,857	14	178	465	711	14	25
Value added by manufacture.....do....	360	9,734	6,998	44	442	1,311	1,900	35	138
Value added by resales.....do....	3	32	1	3	3	18	248	(D)	...
Capital expenditures, new.....do....	2	164	113	1	10	14	88	(D)	6
Manufactures' inventories:									
Beginning of year.....do....	88	...	...	...	...	...	2,004	2	25
End of year.....do....	91	...	...	...	...	...	2,275	4	25
Number of employees for selected months:									
March.....	65	1,514	1,131	13	110	146	338	5	21
May.....	69	1,505	1,135	13	111	143	343	7	21
August.....	62	1,468	1,108	6	107	143	352	6	21
November.....	64	1,485	1,110	4	112	144	347	6	21
Establishments Reporting Detailed Statistics									
Number of establishments, total.....	5	31	12	1	7	6	9	...	2
With 1-19 employees.....	5	18	5	1	7	2	4	...	2
With 20-99 employees.....	...	10	4	...	...	4	4	...	...
With 100 or more employees.....	...	3	3	...	...	...	1	...	...
All employees:									
Number.....	52	1,385	1,094		55		319	...	
Payroll.....\$1,000..	140	5,411	4,273		136		1,335	...	
Production workers:									
Number.....	37	705	516		39		195	...	
Man-hours.....	78	1,308	946		69		393	...	
Wages.....\$1,000..	85	2,502	1,810		88		656	...	
All other employees, force account, etc., number.....	15	680	578		16		124	...	
Value added by manufacture.....\$1,000..	257	9,091	6,833		215		1,664	...	
Value added by resales.....do....	3	25	1		3		232	...	
Capital expenditures, new:									
New plant.....do....	...	6	5		...		21	...	
New equipment.....do....	1	141	108		4		60	...	
Manufactures' inventories:									
Beginning of year, total.....do....	59	...	...		...		1,923	...	
Finished product.....do....	2	...	...		...		1,879	...	
Work-in-process.....do....	...	...	...		...		1	...	
Materials, supplies, fuels, etc.....do....	57	...	...		...		43	...	
End of year, total.....do....	65	...	...		...		2,195	...	
Finished product.....do....	2	...	...		...		2,147	...	
Work-in-process.....do....	1	...	...		...		2	...	
Materials, supplies, fuels, etc.....do....	62	...	...		...		46	...	
Cost and quantity of fuels and electric energy:									
Fuels consumed, total value.....\$1,000..	...	2	2	(D)	...	(D)	52	...	(D)
Coal:									
Quantity.....1,000 short tons..	...	...	...		...		...	...	
Value.....\$1,000..	...	...	...		...		...	...	
Coke:									
Quantity.....1,000 short tons..	...	...	...		...		...	...	
Value.....\$1,000..	...	...	...		...		...	...	
Fuel oils:									
Quantity.....1,000 barrels..	...	...	...		...		11	...	
Value.....\$1,000..	...	...	...		...		28	...	
Gas:									
Quantity.....million cubic ft..	...	...	...		...		...	...	
Value.....\$1,000..	...	...	...		...		...	...	
Other fuels, value.....do....	...	2	2		...		24	...	
Purchased electric energy:									
Quantity.....million kwh..	(6)	3	3		(6)		3	...	
Cost.....\$1,000..	2	68	52		...		41	...	
Horsepower rating of power equipment at end of 1954:									
Horsepower of prime movers and elec- tric motors driven by purchased energy, total.....1,000 hp..	...	2	1		...		2	...	
Engines, etc., driving generators.....do....	...	...	...		...		...	...	
Engines, etc., not driving generators.....do....	...	...	...		...		(7)	...	
Electric motors driven by pur- chased energy.....do....	(7)	2	1		(7)		2	...	
Electric motors driven by energy generated at the establishment.....do....	...	...	...		...		...	...	

See footnotes at end of table.



## MANUFACTURES—AREA STATISTICS

Table 3.—DETAILED STATISTICS FOR SPECIFIED INDUSTRY GROUPS AND INDUSTRIES: 1954—Continued  
(For explanation of items in stub see Introduction)

Item	Venetian blinds 2563	Printing and pub- lishing 27	News- papers 28	Miscel- laneous publishing 2741	Commercial printing 2742	Litho- graphing 2761	Chemicals and products 28	Inorganic chemicals, n.e.c. 2819	Toilet prepara- tions
Establishments Reporting Detailed Statistics—Continued									
Water intake—number of establishments reporting:									
Water intake, total for year:									
20 million gallons or more.....	...	...	...	(D)	(D)	(D)	(D)	(D)	(D)
10-19 million gallons.....	...	...	...						
1-9 million gallons.....	...	6	4						
Less than 1 million gallons.....	5	25	8						
Source of water:									
Public water systems.....	5	31	12	(D)	(D)	(D)	(D)	(D)	(D)
Company surface water systems.....	...	...	...						
Company ground water systems.....	...	...	...						
Type of water:									
Fresh.....	5	31	12	(D)	(D)	(D)	(D)	(D)	(D)
Brackish.....	...	...	...						
Both.....	...	...	...						

Item	Leather and leather goods 31	Stone, clay, and glass products 32	Concrete products 3271	Machin- ery, except elec- trical 35	Machine shops 3599	Trans- portation equipment 37	Miscel- laneous manu- factures 39	Costume jewelry and notions 396	Miscel- laneous manu- factures 398-399	Miscel- laneous products n.e.c. 3999
All establishments										
Number of establishments, total.....	10	9	3	11	7	9	10	6	7	...
With 1-19 employees.....	9	7	1	8	6	8	10	5	6	...
With 20-99 employees.....	1	2	2	2	1	1	...	...	1	...
With 100 or more employees.....	...	...	...	1	1	...	...	...	...	...
All employees:										
Number <sup>1</sup> .....	87	85	67	284	196	86	97	34	41	...
Payroll.....\$1,000..	173	273	235	1,017	677	232	259	88	119	...
Production workers:										
Number <sup>1</sup> .....	80	75	60	229	152	70	81	32	30	10
Man-hours.....1,000..	162	139	114	421	266	118	139	59	51	11
Wages.....\$1,000..	155	226	195	741	480	154	197	83	75	15
Value added by manufacture.....do...	387	578	516	1,459	933	373	348	123	144	51
Value added by resales.....do...	7	4	2	12	12	61	31	...	30	...
Capital expenditures, new.....do...	6	24	12	33	28	11	7	4	3	...
Manufactures' inventories:										
Beginning of year.....do...	82	189	174	843	608	167	58	16	17	4
End of year.....do...	102	269	248	875	672	133	56	17	12	4
Number of employees for selected months:										
March.....	82	115	96	296	207	79	91	31	40	11
May.....	84	111	93	288	199	77	92	32	42	11
August.....	92	58	40	279	192	78	102	38	39	9
November.....	90	56	39	273	186	110	103	35	43	13
Establishments Reporting Detailed Statistics										
Number of establishments, total.....	4	3	3	5	3	3	4	2	1	...
With 1-19 employees.....	3	1	1	2	1	2	...	2	1	...
With 20-99 employees.....	1	2	2	2	1	1	...	...	...	...
With 100 or more employees.....	...	...	...	1	1	...	...	...	...	...
All employees:										
Number <sup>1</sup> .....	59	(D)	(D)	263	(D)	44	58	(D)	(D)	...
Payroll.....\$1,000..	129			964		136	182			...
Production workers:										
Number <sup>1</sup> .....	55			209		38	44			...
Man-hours.....1,000..	119	(D)	(D)	385	(D)	69	85	(D)	(D)	...
Wages.....\$1,000..	120			693		90	129			...
All other employees, force account, etc., number.....	4			54		6	14			...
Value added by manufacture.....\$1,000..	310			1,330		230	154			...
Value added by resales.....do...	1	(D)	(D)	11	(D)	60	31	(D)	(D)	...
Capital expenditures, new:										
New plant.....do...	...			20		...	1			...
New equipment.....do...	4			10		8	3			...
Manufactures' inventories:										
Beginning of year, total.....do...	59	(D)	(D)	790	(D)	143	32	(D)	(D)	...
Finished product.....do...	9			...		...	13			...
Work-in-process.....do...	...			304		60	11			...
Materials, supplies, fuels, etc.....do...	50			486		83	8			...
End of year, total.....do...	71	(D)	(D)	822	(D)	113	29	(D)	(D)	...
Finished product.....do...	10			...		...	7			...
Work-in-process.....do...	2			357		29	12			...
Materials, supplies, fuels, etc.....do...	59			465		84	10			...

See footnotes at end of table.

Table 3.—DETAILED STATISTICS FOR SPECIFIED INDUSTRY GROUPS AND INDUSTRIES: 1954—Continued

(For explanation of items in stub see Introduction)

Item	Leather and leather goods 31	Stone, clay, and glass products 32	Concrete products 3271	Machinery, except electrical 35	Machine shops 3599	Transportation equipment 37	Miscellaneous manufactures 39	Costume jewelry and notions 396	Miscellaneous manufactures 398-399	Miscellaneous products, n.e.c. 3999
Establishments Reporting Detailed Statistics—Continued										
Cost and quantity of fuels and electric energy:										
Fuels consumed, total value....\$1,000..	...			26		...	1			...
Coal:										
Quantity.....1,000 short tons..	...			...		...	...			...
Value.....\$1,000..	...			...		...	...			...
Coke:										
Quantity.....1,000 short tons..	...			1		...	...			...
Value.....\$1,000..	...			24		...	...			...
Fuel oils:										
Quantity.....1,000 barrels..	...			...		...	(4)			...
Value.....\$1,000..	...			...		...	1			...
Gas:										
Quantity.....million cubic ft..	...			...		...	(5)			...
Value.....\$1,000..	...			...		...	...			...
Other fuels, value.....do....	...			2		...	...			...
Purchased electric energy:										
Quantity.....million kwh..	(6)			(6)		(6)	(6)			...
Cost.....\$1,000..	3			16		3	(3)			...
Horsepower rating of power equipment at end of 1954:										
Horsepower of prime movers and electric motors driven by purchased energy, total.....1,000 hp..	...			2		1	...			...
Engines, etc., driving generators.....do....	...	(D)	(D)	...	(D)	(7)	...	(D)	(D)	...
Engines, etc., not driving generators.....do....	...			...		(7)	...			...
Electric motors driven by purchased energy.....do....	(7)			2		2	(7)			...
Electric motors driven by energy generated at the establishment...do....	...			...		...	9			...
Water intake-number of establishments reporting:										
Water intake, total for year:										
20 million gallons or more.....	...			...		...	...			...
10-19 million gallons.....	...			...		...	...			...
1-9 million gallons.....	...			...		...	...			...
Less than 1 million gallons.....	4			5		3	4			...
Source of water:										
Public water systems.....	4			5		3	4			...
Company surface water systems.....	...			...		...	...			...
Company ground water systems.....	...			...		...	...			...
Type of water:										
Fresh.....	4			5		3	4			...
Brackish.....	...			...		...	...			...
Both.....	...			...		...	...			...

Note: Detail may not add to totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>The average employment figures are based on data reported for four selected periods ended nearest the 15th of March, May, August and November except for seasonal industries which are based on twelve monthly figures."<sup>2</sup>Less than 500 tons.<sup>3</sup>Less than \$500.<sup>4</sup>Less than 500 barrels.<sup>5</sup>Less than 500 thousand kwh.<sup>6</sup>Less than 500 thousand cubic feet.<sup>7</sup>Less than 500 hp.

Table 4.—GENERAL STATISTICS FOR ESTABLISHMENTS CLASSIFIED BY TYPE OF OPERATION AND LEGAL ORGANIZATION, BY MAJOR INDUSTRY GROUP: 1954

Ind. code	Major industry group	Type of operation <sup>1</sup>							Type of ownership or control <sup>1</sup>					
		All establishments	Multiunit			Single unit			Corpo-rate	Noncorporate				
			Total	Corpo-rate owner-ship or control	Noncorporate owner-ship	Total	Corpo-rate owner-ship or control	Noncorporate owner-ship		Total	Indi-vidual	Part-ner-ship	Other	
	All industries, total:													
	Number of establishments.....	520	58	57	1	462	152	310	209	311	226	81		
	Total employees.....	24,381	16,836	}	(D)	{ 7,545 21,045 5,745 }	(D)	(D)	{ 22,270 72,088 17,700 }	{ 2,111 5,042 1,824 }	{ 1,098 2,375 963 }	{ 788 1,856 693 }	}	
	Total payroll.....\$1,000..	77,130	56,085											
	Production workers.....	19,524	13,779											
	Production worker wages.....\$1,000..	50,806	37,649			{ 13,157 }			{ 46,765 }	{ 4,041 }	{ 1,954 }	{ 1,357 }		
	Value added by manufac-ture.....do....	140,275	86,445			{ 53,830 }			{ 129,808 }	{ 10,467 }	{ 5,633 }	{ 722 }		
20	Food and kindred products:													
	Number of establishments.....	250	40	39	1	210	67	143	106	144	110			
	Total employees.....	19,272	15,565	}	(D)	{ 3,707 9,300 2,890 }	(D)	(D)	{ 18,379 58,224 15,082 }	{ 893 2,140 724 }	{ 464 917 389 }	{ 204 412 167 }	}	
	Total payroll.....\$1,000..	60,364	51,064											
	Production workers.....	15,806	12,916											
	Production worker wages.....\$1,000..	40,268	34,607			{ 5,661 }			{ 38,708 }	{ 1,560 }	{ 724 }	{ 327 }		
	Value added by manufac-ture.....do....	105,655	73,641			{ 32,014 }			{ 100,928 }	{ 4,727 }	{ 2,192 }	{ 979 }		
22	Textile mill products:													
	Number of establishments.....	3	1	1		2	1	1		1	1			
	Total employees.....	}	(D)	(D)	(D)	{ ... ... ... }	(D)	(D)	(D)	(D)	(D)	{ ... ... ... }	}	
	Total payroll.....\$1,000..													
	Production workers.....													
	Production worker wages.....\$1,000..					{ ... }			{ ... }	{ ... }	{ ... }	{ ... }		
	Value added by manufac-ture.....do....					{ ... }			{ ... }	{ ... }	{ ... }	{ ... }		
23	Apparel and related products:													
	Number of establishments.....	56	1	1		55	11	44	12	44	27	17		
	Total employees.....	998	}	(D)	(D)	{ ... ... ... }	(D)	(D)	{ 555 1,095 515 }	{ 443 1,145 381 }	{ 555 1,095 515 }	{ 201 326 194 }	{ 354 769 321 }	}
	Total payroll.....\$1,000..	2,240												
	Production workers.....	896												
	Production worker wages.....\$1,000..	1,753				{ ... }			{ 966 }	{ 787 }	{ 966 }	{ 281 }	{ 685 }	
	Value added by manufac-ture.....do....	3,518				{ ... }			{ 1,925 }	{ 1,593 }	{ 1,925 }	{ 661 }	{ 1,264 }	
24	Lumber and wood products:													
	Number of establishments.....	24	...	...	...	24	10	14	10	14	12	2		
	Total employees.....	233	...	...	...	233	135	98	135	98				
	Total payroll.....\$1,000..	701	...	...	...	701	446	255	446	255				
	Production workers.....	175	...	...	...	175	93	82	93	82	}	(D)	(D)	}
	Production worker wages.....\$1,000..	484	...	...	...	484	262	222	262	222				
	Value added by manufac-ture.....do....	1,226	...	...	...	1,226	708	518	708	518				
25	Furniture and fixtures:													
	Number of establishments.....	30	1	1	...	29	8	21	9	21	12	9		
	Total employees.....	390	}	(D)	(D)	{ ... ... ... }	(D)	(D)	{ 164 558 143 }	{ 226 816 162 }	{ 164 558 143 }	{ 57 170 49 }	{ 107 388 94 }	}
	Total payroll.....\$1,000..	1,374												
	Production workers.....	305												
	Production worker wages.....\$1,000..	910				{ ... }			{ 458 }	{ 452 }	{ 458 }	{ 134 }	{ 324 }	
	Value added by manufac-ture.....do....	1,648				{ ... }			{ 779 }	{ 869 }	{ 779 }	{ 340 }	{ 439 }	
26	Pulp and paper products:													
	Number of establishments.....	4	...	...	...	4	2	2	2	2	1	1		
	Total employees.....	400	...	...	...	400								
	Total payroll.....\$1,000..	1,292	...	...	...	1,292	}	(D)	(D)	(D)	(D)	(D)	}	}
	Production workers.....	339	...	...	...	339								
	Production worker wages.....\$1,000..	987	...	...	...	987								
	Value added by manufac-ture.....do....	3,359	...	...	...	3,359								
27	Printing and publishing:													
	Number of establishments.....	53	2	2	...	51	30	21	32	21	17	4		
	Total employees.....	1,493	}	(D)	(D)	{ ... ... ... }	(D)	(D)	{ 84 218 68 }	{ 1,409 5,464 722 }	{ 84 218 68 }	{ 66 187 51 }	{ 18 31 17 }	}
	Total payroll.....\$1,000..	5,682												
	Production workers.....	790												
	Production worker wages.....\$1,000..	2,689				{ ... }			{ 149 }	{ 2,540 }	{ 123 }	{ 26 }		
	Value added by manufac-ture.....do....	9,734				{ ... }			{ 804 }	{ 8,930 }	{ 804 }	{ 719 }	{ 85 }	

See footnotes at end of table.



Table 4.—GENERAL STATISTICS FOR ESTABLISHMENTS CLASSIFIED BY TYPE OF OPERATION AND LEGAL ORGANIZATION, BY MAJOR INDUSTRY GROUP: 1954—Continued

Ind. code	Major industry group	All estab- lish- ments	Type of operation <sup>1</sup>						Type of ownership or control <sup>1</sup>				
			Multiunit			Single unit			Corpo- rate	Noncorporate			
			Total	Corpo- rate owner- ship or control	Noncor- porate owner- ship	Total	Corpo- rate owner- ship or control	Noncor- porate owner- ship		Total	Indi- vidual	Part- ner- ship	Other <sup>2</sup>
28	Chemicals and products:												
	Number of establishments.....	22	8	8	...	14	2	12	10	12	11	1	...
	Total employees.....	345			...			23	322	23	21	2	...
	Total payroll.....\$1,000..	1,390			...			50	1,340	50	46	4	...
	Production workers.....	221			...			22	199	22	20	2	...
	Production worker		(D)	(D)	...	(D)	(D)						
	wages.....\$1,000..	711			...			48	663	48	44	4	...
	Value added by manufac- ture.....do.....	1,900			...			244	1,656	244	240	4	...
29	Petroleum and coal products:												
	Number of establishments.....	3	...	...	...	3	3	...	3	...	...	...	...
	Total employees.....		(D)		...	(D)	(D)	...	(D)	...	...	...	...
	Total payroll.....\$1,000..				...			...		...	...	...	...
	Production workers.....				...			...		...	...	...	...
	Production worker		(D)		...	(D)	(D)	...	(D)	...	...	...	...
	wages.....\$1,000..				...			...		...	...	...	...
	Value added by manufac- ture.....do.....				...			...		...	...	...	...
30	Rubber products:												
	Number of establishments.....	1	...	...	...	1	1	...	1	...	...	...	...
	Total employees.....		(D)		...	(D)	(D)	...	(D)	...	...	...	...
	Total payroll.....\$1,000..				...			...		...	...	...	...
	Production workers.....				...			...		...	...	...	...
	Production worker		(D)		...	(D)	(D)	...	(D)	...	...	...	...
	wages.....\$1,000..				...			...		...	...	...	...
	Value added by manufac- ture.....do.....				...			...		...	...	...	...
31	Leather and leather goods:												
	Number of establishments.....	10	...	...	...	10	1	9	1	9	5	4	...
	Total employees.....	87			...						62		...
	Total payroll.....\$1,000..	173			...						132		...
	Production workers.....	80			...						57		...
	Production worker		(D)		...	(D)	(D)	(D)	(D)	(D)		(D)	...
	wages.....\$1,000..	155			...			...			119		...
	Value added by manufac- ture.....do.....	387			...			...			322		...
32	Stone, clay and glass products:												
	Number of establishments.....	9	...	...	...	9	3	6	3	6	5	1	...
	Total employees.....	85			...	85	42	43	42	43			...
	Total payroll.....\$1,000..	273			...	273	135	138	135	138			...
	Production workers.....	75			...	75	34	41	34	41			...
	Production worker				...						(D)	(D)	...
	wages.....\$1,000..	226			...	226	101	125	101	125			...
	Value added by manufac- ture.....do.....	578			...	578	243	335	243	335			...
33	Primary metal industries:												
	Number of establishments.....	1	...	...	...	1	...	1	...	1	...	1	...
	Total employees.....		(D)		...	(D)		(D)		(D)		(D)	...
	Total payroll.....\$1,000..				...			...		...		...	...
	Production workers.....				...			...		...		...	...
	Production worker		(D)		...	(D)		(D)		(D)		(D)	...
	wages.....\$1,000..				...			...		...		...	...
	Value added by manufac- ture.....do.....				...			...		...		...	...
34	Fabricated metal products:												
	Number of establishments.....	11	3	3	...	8	3	5	6	5	4	1	...
	Total employees.....	383	332	332	...	51	44	7	376	7			...
	Total payroll.....\$1,000..	1,427	1,275	1,275	...	152	131	21	1,406	21			...
	Production workers.....	309	273	273	...	36	29	7	302	7			...
	Production worker				...						(D)	(D)	...
	wages.....\$1,000..	1,037	929	929	...	108	87	21	1,016	21			...
	Value added by manufac- ture.....do.....	8,072	7,759	7,759	...	313	237	76	7,996	76			...
35	Machinery (except electrical):												
	Number of establishments.....	11	2	2	...	9	3	6	5	6	4	2	...
	Total employees.....	284			...			21	263	21			...
	Total payroll.....\$1,000..	1,017			...			53	964	53			...
	Production workers.....	229			...			20	209	20			...
	Production worker		(D)	(D)	...	(D)	(D)				(D)	(D)	...
	wages.....\$1,000..	741			...			48	693	48			...
	Value added by manufac- ture.....do.....	1,459			...			129	1,330	129			...

See footnotes at end of table.

## MANUFACTURES—AREA STATISTICS

Table 4.—GENERAL STATISTICS FOR ESTABLISHMENTS CLASSIFIED BY TYPE OF OPERATION AND LEGAL ORGANIZATION, BY MAJOR INDUSTRY GROUP: 1954—Continued

Ind. code	Major industry group	All establishments	Type of operation <sup>1</sup>						Type of ownership or control <sup>1</sup>				
			Multiunit			Single unit			Corpo- rate	Noncorporate			
			Total	Corpo- rate owner- ship or control	Noncor- porate owner- ship	Total	Corpo- rate owner- ship or control	Noncor- porate owner- ship		Total	Indi- vidual	Part- ner- ship	Other <sup>2</sup>
36	Electrical machinery:												
	Number of establishments.....	1	...	...	...	1	1	...	1	...	...	...	...
	Total employees.....		(D)	...	...	(D)	(D)	...	(D)	...	...	...	...
	Total payroll.....\$1,000..		(D)	...	...	(D)	(D)	...	(D)	...	...	...	...
	Production workers.....		(D)	...	...	(D)	(D)	...	(D)	...	...	...	...
	Production worker		(D)	...	...	(D)	(D)	...	(D)	...	...	...	...
	wages.....\$1,000..		(D)	...	...	(D)	(D)	...	(D)	...	...	...	...
	Value added by manufac- ture.....do.....		(D)	...	...	(D)	(D)	...	(D)	...	...	...	...
37	Transportation equipment:												
	Number of establishments.....	9	...	...	...	9	3	6	3	6	4	2	...
	Total employees.....	86	...	...	...	86	42	44	42	44			...
	Total payroll.....\$1,000..	232	...	...	...	232	125	107	125	107			...
	Production workers.....	70	...	...	...	70	35	35	35	35			...
	Production worker										(D)	(D)	...
	wages.....\$1,000..	154	...	...	...	154	73	81	73	81			...
	Value added by manufac- ture.....do.....	373	...	...	...	373	229	144	229	144			...
38	Instruments and related products:												
	Number of establishments.....	3	...	...	...	3	...	3	...	3	1	2	...
	Total employees.....		(D)	...	...	(D)	...	...	(D)	...	(D)	(D)	...
	Total payroll.....\$1,000..		(D)	...	...	(D)	...	...	(D)	...	(D)	(D)	...
	Production workers.....		(D)	...	...	(D)	...	...	(D)	...	(D)	(D)	...
	Production worker		(D)	...	...	(D)	...	...	(D)	...	(D)	(D)	...
	wages.....\$1,000..		(D)	...	...	(D)	...	...	(D)	...	(D)	(D)	...
	Value added by manufac- ture.....do.....		(D)	...	...	(D)	...	...	(D)	...	(D)	(D)	...
39	Miscellaneous manufactures:												
	Number of establishments.....	19	...	...	...	19	3	16	3	16	12	4	...
	Total employees.....	97	...	...	...	97	40	57	40	57	49	8	...
	Total payroll.....\$1,000..	259	...	...	...	259	123	136	123	136	124	12	...
	Production workers.....	81	...	...	...	81	26	55	26	55	47	8	...
	Production worker												...
	wages.....\$1,000..	197	...	...	...	197	70	127	70	127	115	12	...
	Value added by manufac- ture.....do.....	348	...	...	...	348	86	262	86	262	231	31	...

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>All data are based on reports for individual manufacturing establishments, and not on a company basis. Each establishment of multiestablishment companies is classified by its primary industrial activity. For this reason the statistics presented in this table cannot be compared directly with tabulations in which the whole corporation or company is the reporting unit and the entire company is classified in one industry. Establishments were classified either as units in organizations comprising two or more establishments (multiunit) or as independent plants (single unit).

<sup>2</sup>Includes cooperatives, establishments operated by estate administrators, trusteeships, receiverships, and public and quasi-public organizations.

Table 5.—QUANTITY AND VALUE OF SPECIFIED PRODUCTS SHIPPED: 1954

Product Code	Product	Unit of quantity	Total shipments	
			Quantity	Value (\$1,000)
2023411	Ice cream mix and ice milk mix (liquid, paste or dry) (liquid equivalent).....	Thousand gallons...	216	330
2024000	Ice cream and ices.....	.....	xxx	370
2024011	Ice cream.....	Thousand gallons...	1,084	1,937
2024098	Frozen dairy foods other than ice cream, water ices, and mellorine and similar frozen desserts.....	.....do.....	678	1,244
20331--	Canned fruits.....	Thousand doz. cans.	27,724	65,078
20334--	Canned fruit juices.....	.....do.....	18,840	24,192
20338--	Jams, jellies and preserves.....	.....do.....	xxx	173
20352--	Pickles and other pickle products.....	.....do.....	xxx	295
20353--	Mustard and other meat sauces, except tomato.....	.....do.....	xxx	857
2051000	Bread and other bakery products, not specified by kind.....	.....do.....	xxx	1,923
2051111	White bread, pan.....	Thousand pounds...	21,044	3,379
2051115	Wholewheat, cracked wheat, and other dark wheat breads.....	.....do.....	1,984	328
2051117	Rye, raisin and other specialty breads.....	.....do.....	xxx	257
2051119		.....do.....	xxx	334
2051131	Rolls, bread type (Kaiser, Parkerhouse, hamburger and weiner rolls, etc.).....	Thousand pounds...	1,043	214
2051211	Sweet yeast goods.....	.....do.....	559	511
2051311	Soft cakes.....	.....do.....	xxx	163
2051411	Pies.....	.....do.....	xxx	208
2051511	Pastries.....	.....do.....	xxx	77
2051611	Cookies all type (handmade).....	.....do.....	xxx	186
2051711	Doughnuts (cake type).....	.....do.....	xxx	1,066
20520--	Biscuits, crackers, and pretzels.....	.....do.....	xxx	124,772
2061111	Raw cane sugar.....	Short ton.....	1,076,309	1,535
2061241	Molasses, except blackstrap.....	.....do.....	121,980	1,320
2061251	Blackstrap molasses (except refiners blackstrap).....	.....do.....	144,755	3,426
20810--	Bottled soft drinks and carbonated waters.....	Thousand cases....	3,874	3,334
20821--	Beer, ale and other malt liquors.....	.....do.....	xxx	408
20970--	Manufactured ice.....	.....do.....	xxx	460
20980--	Macaroni and noodle products.....	.....do.....	xxx	361
2099211	Potato chips.....	.....do.....	xxx	282
2253311	Men's bathing suits, trunks and athletic shorts.....	.....do.....	xxx	147
2253313		.....do.....	xxx	361
2253315	Boys' swimwear and athletic shorts (made of woven fabric).....	.....do.....	xxx	102
2253325	Women's, misses' and juniors' bathing suits (knit and woven fabric).....	.....do.....	xxx	687
2253333		.....do.....	xxx	305
2253335	Girls and teen-age girls, children's and infants' swimwear made of woven fabric.....	.....do.....	xxx	328
2253345		.....do.....	xxx	344
2253355	Men's sport shirt made from woven fabrics:	.....do.....	xxx	1,035
2321131	Chiefly cotton.....	.....do.....	xxx	151
2321133	Chiefly rayon and acetate.....	.....do.....	xxx	86
2321137	Boys' sport shirts made from woven fabrics.....	.....do.....	xxx	556
2331011	Women's, misses' and juniors' apparel:	.....do.....	xxx	50
2333011		.....do.....	xxx	35
2337411	Blouses, blousesettes, waists and shirts.....	.....do.....	xxx	88
2339011	Unit-priced dresses.....	.....do.....	xxx	766
2339011	Separate skirts.....	.....do.....	xxx	168,481
2339011	Playshorts, pedal pushers and short overalls.....	.....do.....	xxx	118,183
2361013	Outerwear, not specified by kind.....	.....do.....	xxx	50,298
2361031	Girls' dresses (sizes 7-14).....	.....do.....	xxx	191
2361031	Girls' and teen-age girls' blouses, waists and shirts (sizes 7-16).....	.....do.....	xxx	4,638
23940--	Canvas products.....	.....do.....	xxx	4,346
24994--	Miscellaneous wood products, n.e.c. (novelties, woodenware, other turned and shaped products, etc.).....	.....do.....	xxx	292
27111--	Newspaper subscriptions and sales.....	.....do.....	xxx	1,751
2711101	Daily newspapers, except Sunday.....	.....do.....	xxx	1,560
2711111		.....do.....	xxx	191
2711151	Weekly newspapers.....	.....do.....	xxx	4,638
27112--	Newspaper advertising.....	.....do.....	xxx	4,346
2711201	Daily newspapers, except Sunday.....	.....do.....	xxx	292
2711111		.....do.....	xxx	1,751
2711151	Weekly newspapers.....	.....do.....	xxx	1,560
27510--	Commercial printing, letter press, gravure and screen processes.....	.....do.....	xxx	1,899
27610--	Lithography, including offset processes.....	.....do.....	xxx	382
3141--	Footwear, except rubber.....	.....do.....	xxx	300
31420--	House slipper.....	.....do.....	xxx	300

xxx Not applicable.



## MANUFACTURES—AREA STATISTICS

Table 6.—MATERIALS CONSUMED BY SPECIFIED INDUSTRIES: 1954

Code	Materials	Unit of quantity	1954	
			Consumption of materials	
			Quantity	Delivered cost (\$1,000)
	Industry 2011—Meat packing plants.....	.....	xxx	3,087
	Industry 2013—Prepared meats.....	.....	xxx	288
	Industry 2024—Ice cream and ices.....	.....	xxx	1,697
202331	Ice cream mix and ice milk mix.....	Thousand gallons...	274	388
202751	Skim milk (fluid).....	.....	xxx	114
206011	Sugar (cane and beet).....	Cwt.....	14,265	123
970000	All other materials, containers, and supplies.....	.....	xxx	1,072
	Industry 2027—Fluid milk and other products.....	.....	xxx	7,772
202711	Whole milk received.....	Thousand gallons...	8,620	6,383
970000	All other materials, containers, and supplies.....	.....	xxx	1,389
	Industry 2031—Canned seafood.....	.....	xxx	3,119
091211	Fin fish, round.....	Short ton.....	8,160	2,183
970000	All other materials, containers, and supplies.....	.....	xxx	936
	Industry 2033—Canned fruits and vegetables.....	.....	xxx	66,326
011219	Fresh fruit.....	Thousand short tons	737	34,923
206011	Sugar (cane and beet).....	Cwt.....	345,985	2,889
970000	All other materials, containers, and supplies.....	.....	xxx	28,514
	Industry 2061—Raw cane sugar.....	.....	xxx	56,666
011141	Sugar cane.....	Thousand short tons	9,318	59,152
970000	All other materials, containers, and supplies.....	.....	xxx	11,068
	Industry 2062—Cane-sugar refining.....	.....	xxx	9,489
	Industry 2511—Wood furniture, not upholstered.....	.....	xxx	372
242111	Rough lumber hardwood.....	Thousand bd. ft....	230	59
242121	Dressed lumber hardwood.....	...do.....	569	141
970000	All other materials, containers, and supplies.....	.....	xxx	172
	Industry 2515—Mattresses and bedsprings.....	.....	xxx	999
223011	Upholstery fabrics (woven).....	Thousand sq. yds...	240	237
229311	Paddings and fillings except latex foam.....	Thousand pounds...	1,258	182
242111	Rough lumber hardwood.....	Thousand bd. ft....	155	15
251211	Furniture parts, wood (including frames).....	.....	xxx	100
348911	Springs and spring units.....	Short ton.....	283	221
970000	All other materials, containers, and supplies.....	.....	xxx	244
	Industry 2711—Newspapers.....	.....	xxx	2,073
261211	Newsprint.....	Short ton.....	xxx	1,703
261215	Book (uncoated).....	...do.....	xxx	63
261217	Fine.....	...do.....	xxx	99
261251	All other paper and board.....	...do.....	xxx	15
264151	Coated paper, all types.....	...do.....	xxx	4
970000	All other materials, containers, and supplies.....	.....	xxx	189

xxx Not applicable.

Table 7.—GENERAL STATISTICS FOR COUNTIES AND URBAN PLACES: 1954 AND 1939

(For explanation of column captions see Introduction)

County and urban place	Popu-lation, 1950	Estab-lish-ments, number	1954										1939	
			Number of establishments with—			All employees		Production workers			Value added by manu-facture (\$1,000)	Capital expend-itures, new (\$1,000)	Total employ-ment	Value added by manu-facture (\$1,000)
			1-19 employ-ees	20-99 employ-ees	100 and over employ-ees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
Hawaii, total.....	499,794	520	383	88	49	24,381	77,130	19,524	36,114	50,806	140,275	11,693	19,518	58,354
COUNTIES														
Hawaii.....	68,350	74	54	7	13	3,643	10,791	3,198	6,157	8,825	30,684	3,247	2,347	7,572
Honolulu.....	353,020	384	289	73	22	13,700	46,401	10,378	18,934	26,824	75,439	4,625	12,677	37,202
Kauai.....	29,905	29	17	4	8	3,248	9,082	2,832	5,285	7,201	14,882	1,594	1,854	5,715
Maui.....	48,519	33	23	4	6	3,790	10,856	3,116	5,738	7,956	19,270	2,227	2,642	7,865
CITIES WITH 10,000 INHABITANTS OR MORE														
Hilo.....	27,198	51	42	5	4	1,233	3,760	1,033	2,677	2,802	11,433	380	903	2,414
Honolulu.....	248,034	355	266	70	19	12,556	42,870	9,381	17,405	24,033	69,595	3,758	11,416	31,597

Table 8.—GENERAL STATISTICS FOR COUNTIES BY INDUSTRY GROUP AND INDUSTRY: 1954

(For explanation of column captions see Introduction)

Code	Area, industry group and industry <sup>1</sup>	Estab-lish-ments, number	All employees		Production workers			Value added by manu-facture (\$1,000)	Cost of materi-als, etc. (\$1,000)	Value of ship-ments (\$1,000)	Capital expend-itures, new (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
	Hawaii, total.....	520	24,381	77,130	19,524	36,114	50,806	140,275	( <sup>2</sup> )	( <sup>2</sup> )	11,693
COUNTIES											
	Hawaii, total.....	74	3,643	10,791	3,198	6,157	8,825	30,684	( <sup>2</sup> )	( <sup>2</sup> )	3,247
20	Food and kindred products.....	58	2,997	8,625	2,657	5,110	7,274	25,889	( <sup>2</sup> )	( <sup>2</sup> )	3,154
202	Dairy products.....	4	37	111	15	32	35	216	( <sup>2</sup> )	( <sup>2</sup> )	21
203	Canned and frozen foods.....	9	48	87	44	74	78	180	( <sup>2</sup> )	( <sup>2</sup> )	3
2035	Pickles and sauces.....	5	29	52	27	42	43	131	121	252	3
2051	Bread and related products.....	8	53	111	42	85	82	220	354	574	19
2061	Raw cane sugar.....	14	2,755	8,102	2,469	4,771	6,919	24,698	26,701	51,399	3,103
209	Miscellaneous foods.....	11	29	47	28	45	44	181	( <sup>2</sup> )	( <sup>2</sup> )	...
2099	Food preparations, n.e.c.....	8	20	24	20	31	24	97	167	264	...
23	Apparel and related products.....	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...
24	Lumber and wood products.....	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
26	Pulp, paper, and products.....	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
27	Printing and publishing.....	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
28	Chemicals and products.....	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
35	Machinery, except electrical.....	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
37	Transportation equipment.....	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...
39	Miscellaneous manufactures.....	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...
	Honolulu, total.....	384	13,700	46,401	10,378	18,934	26,824	75,439	( <sup>2</sup> )	( <sup>2</sup> )	4,625
20	Food and kindred products.....	150	9,514	32,615	7,387	13,125	18,329	49,491	( <sup>2</sup> )	( <sup>2</sup> )	3,252
2013	Prepared meats.....	5	37	86	28	61	57	270	390	660	...
202	Dairy products.....	11	680	6,862	284	580	973	5,811	( <sup>2</sup> )	( <sup>2</sup> )	108
2024	Ice cream and ices.....	7	221	988	102	194	314	1,760	1,641	3,401	44
203	Canned and frozen foods.....	22	4,930	13,528	4,161	6,750	9,265	20,748	( <sup>2</sup> )	( <sup>2</sup> )	1,035
2033	Canned fruits and vegetables.....	10	4,513	12,400	3,795	6,094	8,419	19,450	48,020	67,470	925
206	Sugar.....	6	2,022	6,461	1,784	3,462	5,106	12,031	( <sup>2</sup> )	( <sup>2</sup> )	1,606
208	Beverages.....	20	542	1,987	270	524	860	4,162	( <sup>2</sup> )	( <sup>2</sup> )	136
209	Miscellaneous foods.....	41	320	565	228	373	389	1,136	( <sup>2</sup> )	( <sup>2</sup> )	60
22	Textile mill products.....	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
23	Apparel and related products.....	51	983	2,214	882	1,737	1,731	3,476	( <sup>2</sup> )	( <sup>2</sup> )	124
232	Men's and boys' furnishings.....	24	387	740	342	692	562	1,168	( <sup>2</sup> )	( <sup>2</sup> )	64
233	Women's and misses' outerwear.....	14	518	1,290	473	910	1,032	1,996	( <sup>2</sup> )	( <sup>2</sup> )	57
2339	Women's outerwear, n.e.c.....	7	300	789	275	533	566	1,122	1,094	2,216	49
2394	Canvas products.....	5	10	21	10	17	21	45	43	88	...
24	Lumber and wood products.....	22	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2431	Millwork plants.....	4	101	365	70	128	212	583	708	1,297	21
25	Furniture and fixtures.....	28	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
251	Household furniture.....	17	305	1,151	244	505	769	1,205	( <sup>2</sup> )	( <sup>2</sup> )	90
2511	Wood furniture, not upholstered..	7	186	678	151	304	454	627	610	1,237	81

See footnotes at end of table.

## MANUFACTURES--AREA STATISTICS

Table 8.—GENERAL STATISTICS FOR COUNTIES BY INDUSTRY GROUP AND INDUSTRY: 1954—Continued  
(For explanation of column captions see Introduction)

Code	Area, industry group and industry <sup>1</sup>	Estab- lish- ments, number	All employees		Production workers			Value added by manu- facture (\$1,000)	Cost of materi- als, etc. (\$1,000)	Value of ship- ments (\$1,000)	Capital expendi- tures, new (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (1,000)	Wages (\$1,000)				
COUNTIES—Continued											
Honolulu—Continued											
26	Pulp, paper, and products.....	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
27	Printing and publishing.....	43	1,277	5,064	658	1,275	2,419	8,843	( <sup>2</sup> )	( <sup>2</sup> )	128
2711	Newspapers.....	13	936	3,776	428	843	1,626	6,190	2,153	8,343	77
2741	Miscellaneous publishing.....	3	9	19	7	11	14	44	72	116	1
2751	Commercial printing.....	12	85	221	63	107	152	371	151	522	10
28	Chemical and products.....	17	262	1,093	153	291	478	1,369	( <sup>2</sup> )	( <sup>2</sup> )	62
2819	Inorganic chemicals, n.e.c.....	3	6	14	6	11	14	35	23	58	2
284	Soap and related products.....	4	12	27	12	21	27	60	( <sup>2</sup> )	( <sup>2</sup> )	...
2893	Toilet preparations.....	4	21	66	15	23	25	138	45	183	6
29	Petroleum and coal products.....	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
30	Rubber products.....	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...
31	Leather and leather goods.....	10	87	173	80	162	155	387	( <sup>2</sup> )	( <sup>2</sup> )	6
32	Stone, clay, and glass products.....	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3271	Concrete products.....	3	67	235	60	114	195	516	229	745	12
33	Primary metal industries.....	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...
34	Fabricated metal products.....	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
35	Machinery, except electrical.....	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
36	Electrical machinery.....	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...
37	Transportation equipment.....	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
38	Instruments and related products.....	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
39	Miscellaneous manufactures.....	18	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
396	Costume jewelry and notions.....	6	34	88	32	59	83	123	( <sup>2</sup> )	( <sup>2</sup> )	4
3993	Signs and advertising displays...	3	30	100	20	40	60	93	40	133	3
Kauai, total.....											
20	Food and kindred products.....	29	3,248	9,082	2,832	5,285	7,201	14,882	( <sup>2</sup> )	( <sup>2</sup> )	1,594
202	Dairy products.....	20	3,112	8,735	2,741	5,131	6,981	13,158	( <sup>2</sup> )	( <sup>2</sup> )	1,517
203	Canned and frozen products.....	4	26	71	15	27	38	121	( <sup>2</sup> )	( <sup>2</sup> )	22
2061	Raw cane sugar.....	5	1,146	2,451	1,047	1,504	1,974	5,032	( <sup>2</sup> )	( <sup>2</sup> )	209
		5	1,893	6,156	1,640	3,541	4,921	7,843	15,853	23,696	1,286
23	Apparel and related products.....	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...
25	Furniture and fixtures.....	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...
27	Printing and publishing.....	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
28	Chemicals and products.....	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
34	Fabricated metal products.....	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
35	Machinery, except electrical.....	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...
Maui, total.....											
20	Food and kindred products.....	33	3,790	10,856	3,116	5,738	7,956	19,270	( <sup>2</sup> )	( <sup>2</sup> )	2,227
203	Canned fruits and vegetables.....	22	3,649	10,389	3,021	5,555	7,684	17,117	( <sup>2</sup> )	( <sup>2</sup> )	2,159
2061	Raw cane sugar.....	3	1,268	2,920	1,158	1,871	2,455	8,138	13,031	21,169	228
		3	2,307	7,313	1,821	3,616	5,158	8,655	19,711	28,366	1,930
23	Apparel and related products.....	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
25	Furniture and fixtures.....	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...
27	Printing and publishing.....	4	69	224	36	70	100	221	( <sup>2</sup> )	( <sup>2</sup> )	11
28	Chemicals and products.....	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...
32	Stone, clay, and glass products.....	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...
34	Fabricated metal products.....	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
35	Machinery, except electrical.....	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup> General statistics for some industries are not shown separately for Counties in the table (see Introduction "Confidentiality of Data for Individual Companies.") Such industries are shown below with the number of establishments in each County for 1954 and, in parentheses, the employment-size range for the industry. Hawaii—Meat packing plants, 1 (1-19); Prepared meats, 1 (1-19); Ice cream and ices, 1 (1-19); Fluid milk, 1 (1-19); Fluid milk and other products, 2 (1-19); Cured fish, 2 (1-19); Canned fruits and vegetables, 2 (1-19); Rice milling, 1 (1-19); Manufactured ice, 2 (1-19); Macaroni and spaghetti, 1 (1-19); Men's and boys' suits and coats, 1 (1-19); Sawmills and planing mills, 1 (1-19); Wood products, n.e.c., 1 (1-19); Paper and paper board mills, 1 (250-499); Newspapers, 1 (20-99); Commercial printing, 1 (1-19); Loose-leaf binders and devices, 1 (1-19); Soap and glycerin, 1 (1-19); Fertilizers, mixing only, 1 (20-99); Compressed and liquefied gases, 1 (1-19); Food-products machinery, 1 (20-99); Machine shops, 1 (1-19); Truck trailers, 1 (20-99); Miscellaneous products n.e.c., 1 (1-19). Honolulu—Meat packing plants, 6 (100-249); poultry dressing plants, 1 (1-19); Fluid milk and other products, 4 (250-499); Canned seafood, 1 (250-499); Pickles and sauces, 10 (20-99); Frozen fruits and vegetables, 1 (1-19); Flour and meal, 1 (1-19); Prepared animal feeds, 1 (1-19); Bread and related products, 28 (500-999); Biscuit and crackers, 3 (100-249); Raw cane sugar, 4 (1,000-2,499); Cane-sugar refining, 2 (100-249); Confectionery products, 5 (20-99); Bottled soft drinks, 16 (250-499); Beer and ale, 4 (250-499); Macaroni and spaghetti, 10 (20-99); Food preparations, 31 (100-249); Finishing textiles except wool, 3 (20-99); Men's and boys' suits and coats, 1 (1-19); Men's dress shirts and nightwear, 14 (100-249); Separate trousers, 2 (20-99); Men's and boys' clothing, n.e.c., 8 (100-249); Blouses, 1 (1-19); Dresses, unit price, 5 (100-249); Women's suits, coats, and skirts, 1 (1-19); Children's dresses, 1 (1-19); Children's outerwear, n.e.c., 1 (20-99); Curtains and draperies, 1 (1-19); Housefurnishings, n.e.c., 2 (1-19); Textile products, n.e.c., 2 (1-19); Sawmills and planing mills, 3 (1-19); Wood products, n.e.c., 15 (20-99); Upholstered household furniture, 2 (1-19); Mattresses and bedsprings, 6 (100-249); Partitions and fixtures, 2 (1-19); Window shades, 2 (1-19); Venetian blinds, 9 (20-99); Paper bags, 2 (1-19); Paper and board products, n.e.c., 1 (1-19); Periodicals, 5 (20-99); Books, publishing and printing, 2 (20-99); Lithographing, 6 (100-249); Greeting cards, 1 (1-19); Photoengraving, 1 (1-19); Organic chemicals, n.e.c., 1 (1-19); Pharmaceutical, 1 (1-19); Soap and glycerin, 2 (1-19); Cleaning and polishing products, 2 (1-19); Fertilizers, 1 (100-249); Compressed and liquefied gases, 2 (20-99); Insecticides and fungicides, 1 (1-19); Petroleum refining, 2 (20-99); Paving mixtures and blocks, 1 (20-99); Rubber industries, n.e.c., 1 (20-99); Footwear, except rubber, 5 (20-99); House slippers, 3 (20-99); Handbags and purses, 1 (1-19); Small leather goods, 1 (1-19); Products of purchased glass, 2 (1-19); Brick and hollow tile, 1 (1-19); Pottery products, n.e.c., 1 (1-19); Nonmetallic mineral products, n.e.c., 1 (1-19); Gray-iron foundries, 1 (1-19); Tin cans and other tinware, 1 (100-249); Structural and ornamental work, 2 (20-99); Plating and polishing, 4 (1-19); Lighting fixtures, 1 (1-19); Steel springs, 1 (1-19); Farm machinery (except tractors), 1 (1-19); Refrigeration machinery, 1 (1-19); Machine shops, 5 (100-249); Phonograph records, 1 (1-19); Truck and bus bodies, 1 (1-19); Ship building and repairing, 2 (20-99);

Footnotes continued on next page.



## Footnotes for Table 8—Continued

Boat building and repairing, 3 (20-99); Optical instruments and lenses, 1 (1-19); Surgical and medical instruments, 1 (1-19); Surgical appliances and supplies, 1 (1-19); Jewelry (precious metal), 2 (1-19); Musical instruments, n.e.c., 1 (1-19); Dolls, 1 (1-19); Hand stamps and stencils, 1 (1-19); Costume jewelry, 5 (20-99); Buttons, 1 (1-19); Brooms and brushes, 2 (1-19); Miscellaneous products, n.e.c., 2 (1-19). Kauai—ice cream and ices, 2 (1-19); Fluid milk, 1 (1-19); Fluid milk and other products, 1 (1-19); Canned seafood, 1 (20-99); Canned fruits and vegetables, 4 (1,000-2,499); Rice milling, 1 (1-19); Bread and related products, 1 (1-19); Bottled soft drinks, 1 (1-19); Food preparations, n.e.c., 3 (20-99); Men's and boys' suits and coats, 1 (1-19); Men's and boys' clothing, n.e.c., 1 (1-19); Venetian blinds, 1 (1-19); Newspapers, 2 (20-99); Commercial printing, 1 (1-19); Fertilizers, mixing only, 1 (20-99); Tin cans and other tinware, 1 (20-99); Machine shops, 1 (1-19). Maui—Bread and related products, 2 (1-19); Bottled soft drinks, 5 (20-99); Food preparations, n.e.c., 9 (1-19); Men's dress shirts and nightwear, 1 (1-19); Housefurnishings, n.e.c., 1 (1-19); Venetian blinds, 1 (1-19); Newspapers, 1 (20-99); Commercial printing, 2 (1-19); Lithographing, 1 (1-19); Softwood distillation, 1 (1-19); Vitreous-china food utensils, 1 (1-19); Tin cans and other tinware, 1 (20-99); Special-industry machinery, n.e.c., 1 (1-19).

<sup>2</sup>The total cost of materials and value of shipments for industry groups have not been published because of extensive duplication arising from shipments from one establishment to another in the same industry classification.

Table 9.—DETAILED STATISTICS FOR COUNTIES AND URBAN PLACES: 1954

Item	Hawaii, total	Counties				Urban places	
		Hawaii	Honolulu	Kauai	Maui	Hilo	Honolulu
ALL ESTABLISHMENTS							
Number of establishments, total.....	520	74	384	29	33	51	355
With 1-19 employees.....	383	54	289	17	23	42	266
With 20-99 employees.....	88	7	73	4	4	5	70
With 100 or more employees.....	49	13	22	8	6	4	19
All employees:							
Number <sup>1</sup> .....	24,381	3,643	13,700	3,248	3,790	1,233	12,556
Payroll.....\$1,000..	77,130	10,791	46,401	9,082	10,856	3,760	42,870
Production workers:							
Number <sup>1</sup> .....	19,524	3,198	10,378	2,832	3,116	1,033	9,381
Man-hours.....1,000..	36,114	6,157	18,934	5,285	5,738	2,677	17,405
Wages.....\$1,000..	50,806	8,825	26,824	7,201	7,956	2,802	24,033
Value added by manufacture.....do...	140,275	30,684	75,439	14,882	19,270	11,433	69,595
Value added by resales.....do....	3,023	156	1,355	79	1,433	51	1,347
Capital expenditures, new.....do....	11,693	3,247	4,625	1,594	2,227	380	3,758
Number of employees for selected months:							
March.....	22,830	3,826	12,764	2,665	3,575	1,260	11,678
May.....	22,142	3,469	12,727	2,425	3,521	1,259	11,617
August.....	29,344	3,347	16,744	4,828	4,425	1,212	15,645
November.....	23,208	3,930	12,565	3,074	3,639	1,201	11,284
ESTABLISHMENTS REPORTING DETAILED STATISTICS							
Number of establishments, total.....	229	31	167	18	13	19	158
With 1-19 employees.....	97	11	77	6	3	10	74
With 20-99 employees.....	83	7	68	4	4	5	65
With 100 or more employees.....	49	13	22	8	6	4	19
All employees:							
Number <sup>1</sup> .....	23,135	3,481	12,690	3,205	3,759	1,102	11,626
Payroll.....\$1,000..	74,351	10,488	44,025	9,016	10,822	3,513	40,645
Production workers:							
Number <sup>1</sup> .....	18,454	3,057	9,519	2,793	3,085	921	8,586
Man-hours.....1,000..	33,929	5,931	17,081	5,227	5,690	2,498	15,342
Wages.....\$1,000..	48,593	8,583	24,945	7,143	7,922	2,611	22,263
All other employees, force account, etc., number	4,681	424	3,171	412	674	181	3,040
Value added by manufacture.....\$1,000..	134,058	29,945	70,251	14,714	19,148	10,851	64,703
Value added by resales.....do....	2,934	149	1,275	79	1,431	140	1,158
Capital expenditures, new:							
New plant.....do....	2,972	318	1,461	431	762	18	1,164
New equipment.....do....	8,429	2,897	2,917	1,154	1,461	337	2,384
Cost and quantity of fuels and electric energy:							
Fuels consumed, total:							
Value.....do....	3,703	1,042	1,156	398	1,107	355	907
Coal:							
Quantity.....1,000 short tons..	( <sup>2</sup> )	( <sup>2</sup> )	...	...	...	...	...
Value.....\$1,000..	( <sup>3</sup> )	( <sup>3</sup> )	...	...	...	...	...
Coke:							
Quantity.....1,000 short tons..	1	1	( <sup>2</sup> )	...	...	1	( <sup>2</sup> )
Value.....\$1,000..	28	12	16	...	...	12	16
Fuel oils:							
Quantity.....1,000 barrels..	816	156	298	62	300	10	232
Value.....\$1,000..	2,523	753	791	212	767	319	597
Gas:							
Quantity.....million cubic ft..	43	( <sup>4</sup> )	43	( <sup>4</sup> )	...	( <sup>4</sup> )	43
Value.....\$1,000..	35	...	35	...	...	...	35
Other fuels:							
Value.....do....	1,117	277	314	186	340	24	259
Purchased electric energy:							
Quantity.....million kwh..	89	5	60	2	20	1	51
Cost.....\$1,000..	2,303	142	1,002	60	1,099	38	848

See footnotes at end of table.

## MANUFACTURES—AREA STATISTICS

Table 9.—DETAILED STATISTICS FOR COUNTIES AND URBAN PLACES: 1954—Continued

Item	Hawaii, total	Counties				Urban places	
		Hawaii	Honolulu	Kauai	Maui	Hilo	Honolulu
ESTABLISHMENTS REPORTING DETAILED STATISTICS—Continued							
Horsepower rating of power equipment at end of 1954:							
Horsepower of prime movers and electric motors driven by purchased energy, total:							
Engines, etc., driving genera-							
tors.....1,000 hp..	111	36	10	23	41	13	4
Engines, etc., not driving genera-							
tors.....do....	43	20	10	5	6	3	5
Electric motors driven by purchased							
energy.....do....	41	13	23	1	1	11	23
Electric motors driven by energy gen-							
erated at the establishment.....do....	116	27	35	16	36	4	23
Water intake-number of establishments reporting:							
Water intake, total for year:							
20 million gallons or more.....	42	14	14	9	5	4	11
10-19 million gallons.....	10	1	9	...	...	1	8
1-9 million gallons.....	35	5	27	...	3	4	25
Less than 1 million gallons.....	113	11	89	9	4	10	87
Source of water:							
Public water systems.....	165	19	125	12	9	14	120
Company surface water systems.....	13	5	2	5	1	2	1
Company ground water systems.....	22	7	12	1	2	3	10
Type of water:							
Fresh.....	184	28	131	17	8	18	123
Brackish.....	5	...	5	...	...	...	5
Both.....	11	3	3	1	4	1	3

<sup>1</sup>The average employment figures are based on data for four selected periods ended nearest the 15th of March, May, August, and November except for seasonal industries which are based on twelve monthly figures. <sup>2</sup>Less than 500 tons. <sup>3</sup>Less than \$500. <sup>4</sup>Less than 500 thousand cubic feet.

Table 10.—DISTRIBUTION OF ESTABLISHMENTS BY EMPLOYMENT SIZE CLASS AND BY MAJOR INDUSTRY GROUP, FOR COUNTIES: 1954

[illegible]







**SPECIAL REPORT**

**MANUFACTURING ACTIVITY IN  
GOVERNMENT ESTABLISHMENTS**

SR-1

## Manufacturing Activity in Government Establishments

This special report presents data for manufacturing activities of selected government establishments in continental United States. These data are not included in other 1954 Census of Manufactures reports, which cover privately operated establishments only. Manufacturing establishments owned by the Federal government and operated by private companies either for the government or for their own account are included with privately operated establishments. Three types of establishments are covered in this report: (1) manufacturing facilities owned and operated by the Department of Defense; (2) manufacturing facilities owned and operated by other United States Government agencies, and (3) prison industries (Federal, District of Columbia and State). The data were prepared with the cooperation of the Department of Defense, the Department of Justice, the Department of Interior and the District of Columbia and State prison systems.

### Manufacturing Facilities Owned by the United States Government and Operated by the Department of Defense

Data are shown in Tables 1 to 3 for manufacturing facilities owned by the United States Government and operated by the Department of Defense. Although these establishments may also be engaged in nonmanufacturing activities at the same location, the statistics represent only their activities relating to manufacturing.

This report covers all manufacturing installations operated by the Department of Defense which produce goods or perform manufacturing services for the general supply system of the Department of Defense. It does not include activities of Defense Department installations which serve primarily or exclusively their own installations (e.g., bakeries, some machine shops and box plants).

Statistics are shown in these tables for employment, man-hours, payrolls, value added by manufacture, and value of shipments. Value of shipments reflects all of the direct costs incurred by the establishments in manufacturing operations such as labor, raw materials, components, parts, supplies, overhead, etc. For shipyards, value of shipments represents the value of new construction and repair work performed during the year whether or not the vessels were completed by the end of 1954. Generally, individual product statistics are shown only for those items with a civilian counterpart. Furthermore, product detail on ordnance and related items is withheld for security reasons on advice of the Bureau of the Budget.

Value added by manufacture represents the total value of shipments (including the value of manufacturing services) less the cost of materials, parts, supplies, etc., actually consumed or

put into production during the year, whether purchased during 1954, withdrawn from inventories, or received from other Government agencies. For a few establishments, value added by manufacture was partly estimated by the Bureau of the Census after consultation with the Department of Defense, on the basis of related data reported by the establishment.

Military personnel are not included in any of the employment, payroll or man-hours data. These data represent only nonmilitary (wage board and graded) employees engaged in the manufacturing activities at the plant.

### Manufacturing Facilities Owned and Operated by Other United States Government Agencies

Manufacturing operations of the Bureau of Mines, U. S. Department of Interior, are not included in Tables 1 to 3. That Agency is the sole producer of helium in the United States. During 1954, it operated 4 plants from which 190 million cubic feet of helium valued at \$3,202 thousand were shipped. The value added by manufacture for these plants was \$2,838 thousand. The average number of employees totaled 358, of which 275 were production and related workers, and the total wages and salaries paid amounted to \$1,583 thousand. The Bureau of Mines also operated a titanium pilot plant during part of 1954 which produced 290 thousand pounds of titanium sponge and employed 64 persons. Additional detail for production, shipments, consumption, prices, reserves and activities relating to conservation and technology appear in the Minerals Yearbook, a publication of the Bureau of Mines.

Excluded from this report are the manufacturing activities of the Government Printing Office and the Tennessee Valley Authority. The operations of these agencies are covered in their Annual Reports. Also excluded are the minor manufacturing activities of such other Government agencies as the Post Office Department and the General Services Administration. The manufacturing activities of these latter agencies have no counterparts in private industry.

### Prison Industries (Federal, District of Columbia, and State)

During 1954 manufactured products valued at \$69,184 thousand were produced in Federal, District of Columbia, and State prisons in the United States. It is estimated that about 10 percent of this total was sold on the open market, the remainder representing products used by Federal or local government agencies, including the prison systems. These data, shown in detail in Table 4, cover the activities of the Federal Prison Industries, Inc., as well as those of the prison industries of each State and the District of Columbia.



## MANUFACTURING ACTIVITY IN GOVERNMENT ESTABLISHMENTS

SR - 3

Table 1.--EMPLOYMENT, PAYROLLS, MAN-HOURS, AND VALUE ADDED BY MANUFACTURE FOR MANUFACTURING FACILITIES OPERATED BY THE DEPARTMENT OF DEFENSE, BY STATES: 1954

Geographic division and State	All employees (wage board and graded)		Production workers (wage board)			Value added by manufacture (\$1,000)
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	
UNITED STATES, TOTAL.....	172,884	752,798	138,532	249,545	603,394	919,772
New England.....	26,283	112,480	21,386	38,209	91,182	126,766
New Hampshire.....	7,907	33,542	6,264	11,584	26,503	35,415
Massachusetts.....	18,376	78,938	15,122	26,625	64,679	91,351
Middle Atlantic.....	42,154	188,539	33,318	60,146	150,547	225,618
New York.....	19,396	92,515	15,454	28,564	75,542	112,641
New Jersey.....	3,839	14,526	2,902	4,980	10,551	16,036
Pennsylvania.....	18,919	81,498	14,962	26,602	64,454	96,941
East North Central.....	12,642	52,572	9,618	20,097	39,491	71,462
Ohio.....	33	164	33	68	164	400
Indiana.....	3,863	16,778	2,772	4,960	11,189	23,967
Illinois.....	8,746	35,630	6,813	15,069	28,138	47,095
West North Central.....	2,653	9,387	2,296	4,171	8,017	11,700
Nebraska.....	2,653	9,387	2,296	4,171	8,017	11,700
South Atlantic.....	33,972	144,414	27,146	47,177	113,168	171,487
Maryland.....	3,366	13,165	2,858	5,195	10,999	14,929
District of Columbia.....	8,732	39,239	5,797	9,968	25,657	52,500
Virginia.....	13,474	58,582	11,168	19,784	48,858	63,310
South Carolina.....	6,344	26,391	5,425	9,564	21,245	31,500
Georgia.....	2,056	7,037	1,898	2,666	6,409	9,248
East South Central.....	2,537	11,403	1,834	3,592	8,368	15,250
Kentucky.....	1,474	6,616	1,220	2,117	5,626	8,850
Alabama.....	1,063	4,787	614	1,475	2,742	6,400
West South Central.....	5,874	21,546	4,777	9,510	16,815	30,523
Arkansas.....	2,963	11,162	2,120	4,248	7,384	14,750
Oklahoma.....	2,911	10,384	2,657	5,262	9,431	15,773
Mountain.....	2,747	11,931	1,938	4,103	8,161	15,910
Idaho.....	401	1,583	361	812	1,424	2,100
Colorado.....	2,051	9,149	1,337	2,809	5,789	12,210
Nevada.....	295	1,199	240	482	948	1,600
Pacific.....	44,022	200,526	36,219	62,540	167,645	251,056
Washington.....	14,616	66,227	12,188	21,358	55,926	79,571
California.....	29,406	134,299	24,031	41,182	111,719	171,485

Table 2.--EMPLOYMENT, PAYROLLS, MAN-HOURS, AND VALUE ADDED BY MANUFACTURE FOR MANUFACTURING FACILITIES OPERATED BY THE DEPARTMENT OF DEFENSE, BY PRINCIPAL TYPE OF MANUFACTURING ACTIVITY: 1954

Ind. code	Major activity	All employees (wage board and graded)		Production workers (wage board)			Value added by manufacture (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	
	All manufacturing facilities, total <sup>1</sup> .....	172,884	752,798	138,532	249,545	603,394	919,772
2099	Coffee roasting.....	91	383	88	154	364	458
2298	Cordage and twine.....	75	263	73	107	256	452
2310	Men's suits, coats, and other clothing.....	2,429	7,671	2,179	3,716	6,350	9,385
2320							
2393	Canvas and other fabricated textile products..	330	1,516	285	668	918	1,940
2394							
2399							
2826	Explosives.....	3,044	11,787	2,580	4,458	9,818	13,319
2851	Paints, varnishes, lacquers, japans, and enamels.....	104	470	103	178	465	842
3391	Iron and steel forgings.....	10	48	10	20	48	114
3471	Lighting fixtures.....	163	663	163	303	663	900
3731	Ship and boat building and repairing.....	109,754	496,031	89,577	156,489	408,631	579,947
3732							
1900	Ordnance.....	56,884	233,966	43,474	83,452	175,881	312,415

<sup>1</sup>Excludes data for foundries which are part of nonmanufacturing establishments.

## MANUFACTURING ACTIVITY IN GOVERNMENT ESTABLISHMENTS

Table 3.--QUANTITY AND VALUE OF PRODUCT SHIPMENTS BY MANUFACTURING FACILITIES OPERATED BY THE DEPARTMENT OF DEFENSE: 1954

Product code	Product	Unit of quantity	Total shipments including interplant transfers	
			Quantity	Value f.o.b. plant (\$1,000)
2099515	Roasted coffee, ground.....	Thousand pounds	55,566	53,086
	Abaca rope and cable:			
2298111	3/4 inch in diameter and larger.....	...do.....	3,954	1,118
2298115	Less than 3/4 inch in diameter.....	...do.....	1,039	298
2298221	Agave rope and cable 3/4 inch in diameter and larger.....	...do.....	12	8
	Men's military uniform apparel:			
231117-	Uniform suits.....	Number.....	170,570	2,961
2311271	Overcoats.....	...do.....	21,617	283
2311371	Jackets.....	...do.....	318,218	4,735
2321151	Shirts.....	Dozen.....	93,400	3,492
2327061	Trousers.....	...do.....	80,600	4,084
	Men's work clothing:			
2329111	Pants.....	Pair.....	268,283	735
2329251	Jackets.....	Number.....	532,774	1,598
2329398	Men's armored clothing, caps, liners, and miscellaneous items.....	.....	xxx	3,214
2394031	Canvas tents.....	.....	xxx	1,342
2390000	Other fabricated textile products, such as canvas products, bags, etc.....	.....	xxx	3,188
2826000	Explosives.....	.....	xxx	25,693
	Paints, marine:			
2851217	Ship bottom.....	Thousand gallons	628	1,406
2851219	Other.....	...do.....	3,244	5,860
3321000	Gray iron castings <sup>1</sup> .....	.....	xxx	572
3391000	Iron and steel forgings.....	.....	xxx	209
3471000	Lighting fixtures.....	.....	xxx	1,282
3731000	Shipbuilding and repair.....	.....	xxx	780,042
3732000	Boatbuilding and repair.....	.....	xxx	11,386
3799000	Other transportation equipment.....	.....	xxx	5,323
3831000	Optical instruments and lenses.....	.....	xxx	4,572

xxx Not applicable.

<sup>1</sup>Excludes castings produced and consumed at the same facility.

Table 4.--QUANTITY AND VALUE OF SHIPMENTS OF PRODUCTS MANUFACTURED AT FEDERAL, DISTRICT OF COLUMBIA, AND STATE PRISONS: 1954

Product code	Product	Unit of quantity	Quantity	Value f.o.b. plant (\$1,000)
	Total.....	.....	xxx	69,184
2010000	Meat and meat products.....	.....	xxx	1,389
2030000	Canned foods.....	.....	xxx	3,689
2041000	Flour.....	.....	xxx	304
2042000	Prepared animal feeds.....	.....	xxx	380
2099000	Coffee and tea.....	.....	xxx	1,261
2131000	Tobacco, chewing and smoking.....	.....	xxx	800
2224200	Yarns.....	Thousand pounds	1,704	836
2213200	} Blankets.....	.....	xxx	1,419
2233600				
2233000	Woven fabrics.....	Thousand pounds	10,849	7,864
2250000	Knit goods.....	.....	xxx	861
2298000	Cordage and twine.....	Thousand pounds	16,328	3,038
2299100	Linen goods (flax).....	.....	xxx	121
2311000	} Apparel.....	.....	xxx	9,547
2329000				
2392000	Sheets and pillow cases.....	.....	xxx	773
2394000	Canvas specialties.....	.....	xxx	922
2399000	Miscellaneous textile products.....	.....	xxx	121
2421100	Lumber.....	.....	xxx	152
2515100	Mattresses.....	.....	xxx	1,736
2531000	Wooden furniture.....	.....	xxx	4,544
2532000	Hospital beds.....	.....	xxx	225
2699000	Paper products.....	.....	xxx	293
2751000				
2761000	} Printing and binding.....	.....	xxx	1,263
2781000				
2841000	Soaps.....	.....	xxx	1,174
2851000	Paints.....	.....	xxx	1,527
3141000	Shoes.....	Thousand pairs.	1,173	5,746
3251000	Brick.....	.....	xxx	954
3271000	Concrete products.....	.....	xxx	248
3321000				
3322000	} Iron castings.....	.....	xxx	456
3463198	License plates.....	Thousands.....	81,378	7,932
3522000	Farm equipment.....	.....	xxx	643
3599000	Miscellaneous metal products.....	.....	xxx	3,265
3981000	Brooms and brushes.....	.....	xxx	2,741
3993000	Highway and road signs.....	Thousands.....	1,204	2,532
9000000	Miscellaneous products.....	.....	xxx	428

Note: Excludes agricultural products, road building, and other nonmanufacturing activities.

xxx Not applicable.

## Appendix A

### Industry Descriptions

This appendix presents, in tabular form, descriptions of industries for which data are published in the 1954 Census of Manufactures reports and a comparison of their 1954 and 1947 specialization and coverage ratios. These ratios are computed from data shown in Tables 5A and 5B of Volume II, Industry Statistics.

The scope and content of the 1954 Census conform to the Standard Industrial Classification (S.I.C.) Manual, 1945 edition, as amended by the Bureau of the Budget prior to the 1954 Census. The industry descriptions shown in this appendix follow the S.I.C. manual, as amended, but contain more extensive references to products classified in the industry and additional cross references to similar or related products classified in other industries. Industry titles used are Census "short" titles; if different from the S.I.C., the full S.I.C. title is shown in a parenthesis following the Census short title. S.I.C. industries which have been rearranged or combined in the 1954 Census are listed by the Census code classification; the equivalent S.I.C. industry is also included as part of the full industry title. Changes in scope and content of manufacturing industries from 1947 are described in Appendix B, "Comparisons of 1954 and 1947 Census Industry Classifications," as well as in the text preceding each of the industry reports of Volume II, Industry Statistics.

Establishments are classified in industries on the basis of their principal activity, usually measured in terms of dollar value of products shipped (see Introduction, Industry Classification of Establishments). While many establishments produce only products primary to the industry, most industries include some establishments which also produce secondary products (products classified as primary to other industries). The primary product specialization ratio describes the proportion of primary products shipped by the industry to total product shipments (both primary and secondary) by the industry. Miscellaneous receipts (receipts for contract work, sale of scrap, etc.) are excluded from this computation.

The coverage ratio is the proportion of primary products shipped by the industry to total shipments of these products by all manufacturing industries. Because of the diversity of manufactures, relatively few industries account for 100 percent of the manufacture of their primary products. Furthermore, an industry's coverage ratio may be reduced by the system of industry classification which distinguishes, for some industries, between different processes in the manufacture of the same product. For such industries, the coverage ratio would be significantly different if the computations were confined to shipments of the products made by similar production processes rather than by all processes. For example, although Industry 2931, Beehive Coke Ovens, accounted for only 1 percent of the coke shipped by all manufacturing plants, this output represented 100 percent of the coke made in beehive ovens.

Ratios are not computed for 4-digit industries in which receipts are predominantly from services rendered rather than for products shipped, since the value of such services performed for others on either a contract or commission basis was not reported separately by type of service. Nor are ratios computed for industries having significant duplication between establishments in the industry due to the consumption of certain products of the industry as materials by other establishments in the same industry. Ratios are shown, however, wherever such duplication could be approximated and eliminated from the computations.

Industries are grouped by specialization and coverage ratio in the following two summary tables. A distribution of industries by 1954 ratio group is shown in table 1; and in table 2, identical industries are grouped by 1954 ratio group and by 1947 ratio group and 1954 employment is shown for both the 1947 and 1954 ratio group. With relatively few exceptions, changes in ratio for individual industries between the two years have been relatively minor. In 1954, as in 1947, approximately 95 percent of manufacturing employment is included in industries with specialization of 80 percent or higher.

Table 1

Ratio group	Primary product specialization ratio: 1954			Coverage ratio: 1954		
	Industries, number	Employees		Industries, number	Employees	
		Number (1,000)	Percent of total		Number (1,000)	Percent of total
Total <sup>1</sup> .....	<sup>2</sup> 431	14,175	100	<sup>3</sup> 431	14,156	100
100 percent.....	14	258	2	21	845	6
90 to 99 percent.....	221	8,112	57	188	6,134	43
80 to 89 percent.....	163	5,150	36	119	4,865	35
70 to 79 percent.....	26	592	4	48	1,115	8
60 to 69 percent.....	6	60	1	27	709	5
Under 60 percent.....	1	3	( <sup>4</sup> )	28	488	3

<sup>1</sup>Major industry group 19 is computed as a single industry; Industries 2026 and 2027 are also combined as a single industry.

<sup>2</sup>Excludes 16 industries having 1,477 thousand employees.

<sup>3</sup>Excludes 16 industries having 1,496 thousand employees.

<sup>4</sup>Less than 0.5 percent.



Table 2

Ratio group	Distribution by 1954 ratio			Distribution by 1947 ratio		
	Industries, number	Employees, 1954		Industries, number	Employees, 1954	
		Number (1,000)	Percent of total		Number (1,000)	Percent of total
Total..... 100 percent..... 90 to 99 percent..... 80 to 89 percent..... 70 to 79 percent..... 60 to 69 percent..... Under 60 percent.....  Total..... 100 percent..... 90 to 99 percent..... 80 to 89 percent..... 70 to 79 percent..... 60 to 69 percent..... Under 60 percent.....	Primary product specialization ratio					
	1394	11,210	100	1394	11,210	100
	13	237	2	23	370	3
	203	6,415	57	212	6,572	59
	149	4,037	36	125	3,739	33
	23	490	5	30	494	5
	5	28	(3)	4	35	(3)
	1	3	(3)	...	...	...
	Coverage ratio					
	2395	11,159	100	2395	11,159	100
	19	702	6	26	896	8
	176	5,275	47	176	5,313	48
	110	3,342	30	108	3,361	30
	44	942	9	44	934	8
	21	541	5	15	194	2
	25	357	3	26	461	4

<sup>1</sup>Excludes 53 industries having 4,442 thousand employees.<sup>2</sup>Excludes 52 industries having 4,493 thousand employees.<sup>3</sup>Less than 0.5 percent.

Industry group (3-digit) specialization and coverage ratios are shown for the first time in reports of the 1954 Census of Manufactures. Comparable ratios are shown for 1947 only where the 4-digit industry and the 3-digit industry group are substantially identical. Industry group ratios are based on shipments of all products which are primary to any of the 4-digit industries included in the industry group. These ratios provide a measure of overlapping production with industries in other 3-digit groups. However, it should be noted that industry group ratios are derived from figures which may include duplication arising from the

transfer of products between 4-digit industries in the group as well as within certain 4-digit industries.

The following abbreviations are used:

NA Not available  
 (D) Withheld to avoid disclosing data for individual companies  
 S.I.C. Standard Industrial Classification  
 n.e.c. Not elsewhere classified

Code	Industry title and description	1954			1947		
		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
20	FOOD AND KINDRED PRODUCTS						
	This major group includes establishments manufacturing foods and beverages for human consumption and certain related products, such as manufactured ice, chewing gum, and prepared feeds for animals and fowls. Establishments which are primarily engaged in processing and distributing fluid milk and cream are also included. Establishments primarily engaged in extracting animal and vegetable oils are classified in Major Group 28, Chemicals and Products and establishments producing meat, poultry, dairy, bakery, and confectionery products for sale chiefly at retail on the manufacturing premises are classified in Trade Industries.						
201	Meat products.....	311.4	97	99	274.5	(NA)	(NA)
2011	<u>Meat Packing Plants</u> (Meat Packing, Wholesale).....	220.2	98	87	208.4	(4)	(4)
	Establishments primarily engaged in the slaughtering (for their own account, or on a contract basis for the trade) of cattle, hogs, sheep, lambs, calves, and other animals, except small game, for meat to be sold fresh or to be used on the same premises in canning and curing, and in making sausage, lard, and other products. Important products of this industry include fresh and frozen meat (beef, veal, mutton, lamb, and pork), canned beef, pork and other meat goods, sausage and lard. Establishments primarily engaged in manufacturing sausages and meat specialties are classified in Industry 2011 if the raw materials are primarily obtained from animals slaughtered in the establishment; in Industry 2013, Prepared Meats, if the raw materials are primarily purchased meats. Establishments primarily engaged in killing, dressing and packing poultry, rabbits and other small game are included in Industry 2015, Poultry Dressing; canning poultry in Industry 2033, Canning and Preserving, and the manufacture of dog and cat food in Industry 2042, Prepared Animal Feeds.						
2013	<u>Prepared Meats</u> (Includes S.I.C. Industry 2013, Sausages and Other Prepared Meat Products and Industry 2014, Sausage Casings).....	45.0	83	<sup>5</sup> 28	44.5	(4)	(4)
	Establishments primarily engaged in manufacturing sausages, prepared meats, meat specialties, and sausage casings but which are not primarily engaged in slaughtering livestock. Sausage or meat kitchens operated by packing houses as separate establishments are also included in this industry. Establishments primarily engaged in killing, dressing, and packing poultry, rabbits and other small game are classified in Industry 2015, Poultry Dressing Plants; and canning poultry in Industry 2033, Canning and Preserving, Except Fish.						
2015	<u>Poultry Dressing Plants</u> (Poultry and Small Game Dressing and Packing, Wholesale).....	146.2	96	97	21.6	88	88
	Establishments primarily engaged in killing, dressing, and packing poultry, rabbits, and other small game for their own account or on a contract basis. This industry also includes separate plants cutting-up and quick-freezing poultry or small game for the trade or for other plants of the company.						
202	Dairy products.....	283.4	99	99	(NA)	(NA)	(NA)
2021	<u>Creamery Butter</u> .....	21.0	74	77	27.1	79	84
	Establishments primarily engaged in manufacturing creamery butter. Establishments primarily engaged in manufacturing processed and ladle butter are classified in Industry 2025, Special Dairy Products.						
2022	<u>Natural Cheese</u> .....	13.9	83	74	12.8	84	83
	Establishments primarily engaged in manufacturing all types of natural cheese and which may produce processed cheese in the same establishment. Establishments primarily engaged in manufacturing processed cheese from purchased natural cheese are classified in Industry 2025, Special Dairy Products.						

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
20	FOOD AND KINDRED PRODUCTS—Continued						
202	Dairy products—Continued						
2023	Concentrated Milks (Condensed and Evaporated Milk)..... Establishments primarily engaged in manufacturing condensed and evaporated milk, and related products such as sweetened condensed milk (case and bulk goods); unsweetened condensed and evaporated milk; condensed and evaporated buttermilk; dried and powdered skim milk; whole milk, whey, and buttermilk; and ice-cream mix and ice-milk mix made for sale as such.	13.3	82	68	18.3	84	77
2024	Ice Cream and Ices..... Establishments primarily engaged in manufacturing ice cream, ice cream cake, ices, and other frozen desserts.	36.5	93	70	46.7	90	87
2025	Special Dairy Products..... Establishments primarily engaged in manufacturing special dairy products. Important products of this industry include processed and ladle butter, malted milk, and fermented milk; processed cheese, cheese pastes, and spreads made from purchased natural cheese; instant whip (vegetable oil base), sour cream, and yogurt. Establishments primarily engaged in manufacturing creamery butter are classified in Industry 2021, Creamery Butter, and process cheese produced from natural cheese made in the same establishment in Industry 2022, Natural Cheese, and dried or powdered milk in Industry 2023, Concentrated Milks.	7.3	90	56	7.5	91	(NA)
2026 2027	Fluid Milk and Other Products.....  These two industries are described together because of their close relationship. They comprise establishments primarily engaged in processing (pasteurizing, homogenizing, vitaminizing, bottling) and distributing fluid milk and cream. Establishments primarily engaged in processing fluid milk and which are not engaged in the manufacture of other dairy products are classified in Industry 2026, and those primarily engaged in processing fluid milk, but also manufacturing other dairy products in Industry 2027. Milk receiving stations primarily engaged in the assembly and reshipment of bulk milk for the use of manufacturing or processing plants are excluded.	{ 14.1 177.3 }	82	94	(NA)	(NA)	(NA)
203	Canning, preserving, and freezing.....	199.2	95	97	201.1	(NA)	(NA)
2031	Canned Seafood..... Establishments primarily engaged in cooking and canning fish, shrimps, oysters, clams, and other seafoods. Establishments primarily engaged in shucking, and packing fresh oysters in non-sealed containers, or freezing and packaging fresh fish are included in Industry 2036, Packaged Seafood; frozen cooked fish are classified in Industry 2099, Food Preparations, N.E.C.	<sup>1</sup> 15.1	96	94	20.2	91	96
2032	Cured Fish..... Establishments primarily engaged in smoking, salting, drying, or otherwise curing fish for the trade. The products of the industry consist chiefly of smoked salmon, herring, whitefish, chub, cisco, etc., and salted and pickled fish for further processing, in addition to that produced ready for consumption.	<sup>1</sup> 1.7	97	91	2.4	97	88

See footnotes at end of table.



## APPENDIX A

App. A-5

Code	Industry title and description	1954			1947		
		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
20	FOOD AND KINDRED PRODUCTS—Continued						
203	Canning, preserving, and freezing—Continued						
2033	<u>Canned Fruits and Vegetables</u> (Canned Fruits, Vegetables, Poultry, and Soups; Preserves, Jams, and Jellies)..... Establishments primarily engaged in canning fruits, vegetables, and poultry, and fruit and vegetable juices (including soups), and in manufacturing preserves, jams, and jellies. Important products of this industry include canned vegetables (including canned baked beans, and tomato cocktail); fruit and vegetable juices (canned, bottled, and in bulk); canned spaghetti; canned soups (except seafoods--Industry 2031); canned fruits (including fruit salad and fruit cocktail); preserves; jams, jellies, baby food, except meats; fruit butters; and maraschino cherries.	<sup>1</sup> 119.8	90	94	135.9	91	94
2034	<u>Dehydrated Fruits and Vegetables</u> (Dried and Dehydrated Fruits and Vegetables)..... Establishments primarily engaged in sun-drying or artificially dehydrating fruits and vegetables, including packaged soup mix prepared from dehydrated ingredients. Important products of this industry include dried dates, dried olives, dried prunes, dried raisins, and other dried fruits and vegetables. Establishments which purchase dried fruits and grade and package them for market are classified in Wholesale Trade.	7.0	95	97	4.0	96	90
2035	<u>Pickles and Sauces</u> (Pickled Fruits and Vegetables, Vegetable Sauces and Seasonings; Salad Dressing)..... Establishments primarily engaged in pickling, brining fruits and vegetables, and in manufacturing salad dressings, vegetable relishes, sauces, and seasonings. Important products of this industry include pickles; ketchup (canned, bottled, and in bulk); brined fruits and vegetables; prepared horseradish; sauerkraut in bulk; prepared mustard; tomato chili sauce, and other vegetable sauces; mayonnaise; cooked salad dressings and raw salad dressings, such as French, Thousand-Island, and Russian; and sandwich spread, salad dressing base. Establishments primarily engaged in manufacturing canned and bottled olives; canned sauerkraut, tomato paste, tomato pulp, and tomato purees are classified in Industry 2033, Canned Fruits and Vegetables.	<sup>1</sup> 21.9	80	75	21.3	84	69
2036	<u>Packaged Seafood</u> (Fresh or Frozen Packaged Fish)..... Establishments primarily engaged in preparing fresh or frozen packaged fish and other seafood. Industry 2036 also includes establishments primarily engaged in shucking and packaging fresh oysters in non-sealed containers. Establishments primarily engaged in manufacturing canned seafood are classified in Industry 2031, Canned Seafood and cured fish in Industry 2032, Cured Fish. Cold storage warehouses, frozen food locker plants and retail stores freezing or packaging fresh seafood are classified in Trade Industries.	<sup>1</sup> 12.2	94	95	(NA)	(NA)	(NA)
2037	<u>Frozen Fruits and Vegetables</u> (Frozen Fruits, Fruit Juices, and Vegetables). Establishments primarily engaged in quick-freezing and cold packing (freezing) vegetables, fruits, and fruit juices. Establishments primarily engaged in manufacturing canned and bottled fruits, fruit juices, and vegetables are classified in Industry 2033, Canned Fruits and Vegetables and concentrated fruit juice products for fountain use (not frozen), in Industry 2095, Flavorings. Establishments primarily engaged in packing fruits and vegetables for freezing but not freezing the product; cold storage warehouses freezing foods for others, frozen food locker and other establishments freezing for individual consumers or farms and ranches producing frozen fruits and vegetables are not included in the Census of Manufactures.	<sup>1</sup> 21.4	88	84	17.4	<sup>7</sup> 89	<sup>7</sup> 84

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees <sup>1</sup>	Industry ratio (percent)		All employ- ees <sup>1</sup>	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
		(1,000)			(1,000)		
20	FOOD AND KINDRED PRODUCTS—Continued						
204	Grain-mill products.....	110.0	99	90	113.2	(NA)	(NA)
2041	<u>Flour and Meal</u> (Flour and Other Grain-Mill Products).....	29.0	94	84	39.6	92	92
	Establishments primarily engaged in milling flour or meal from grain, except rice (Industry 2044, Rice Milling). Such flour and grain mills may also produce cracked grain used as cereal or stock dry feed, or blended and prepared flours, principally from products ground in the same establishment. Important products of this industry include wheat flour (white; semolina; farina; granular; graham; whole-wheat--blended, phosphated, enriched, self-rising, and other prepared flour); rye, buckwheat, corn, and other flour; prepared flour mixes and corn meal; corn grits and flakes for brewers' use; and bran and middlings. Establishments primarily engaged in manufacturing prepared flour mixes are classified in Industry 2041 if the principal raw material is flour milled in the same establishments; if the flour is milled elsewhere, such blending plants are classified in Industry 2045, Blended and Prepared flour. Establishments primarily engaged in manufacturing prepared animal feeds from grain are classified in Industry 2042, Prepared Animal Feeds. Establishments primarily engaged in custom milling and other agricultural services are not included in the Census of Manufactures.						
2042	<u>Prepared Animal Feeds</u> (Prepared Feeds for Animals and Fowls).....	59.9	95	90	55.2	95	89
	Establishments primarily engaged in manufacturing prepared feeds for animal and fowls. Prepared feeds include those made from milled grains; animal, marine, and vegetable proteins; alfalfa meals, bone meal, calcium carbonate, manganese, and other mineral supplements; fish liver oils, distillers' solubles, and other vitamin supplements. Mills primarily engaged in the custom grinding of feeds are classified as Agricultural Services and are excluded from the scope of the Census of Manufactures.						
2043	<u>Cereal Breakfast Foods</u> (Cereal Preparations).....	11.5	77	80	11.3	68	87
	Establishments primarily engaged in manufacturing breakfast foods, coffee substitutes, and other cereal preparations from grain. Principal products of the industry are breakfast cereals made of wheat, corn, or rice, and cereal preparations to be cooked before serving, such as farina and oatmeal. Establishments primarily engaged in manufacturing cracked grain for human consumption are classified in Industry 2041, Flour and Meal, and those engaged chiefly in grinding, cracking or rolling grains for animal feed in Industry 2042, Prepared Animal Feeds.						
2044	<u>Rice Milling</u> (Rice Cleaning and Polishing).....	14.0	99	100	4.1	100	100
	Establishments primarily engaged in cleaning and polishing rice, and in manufacturing rice flour or meal. Important products of this industry include brown rice, milled rice (including polished rice), rice polish, rice bran, and rice flour.						
2045	<u>Flour Mixes</u> (Blended and Prepared Flour).....	5.6	71	45	3.1	81	17
	Establishments primarily engaged in the preparation of self-rising or blended flour from purchased flour. Important products of this industry include plain blended flour, and phosphated, self-rising, and other kinds of prepared flour such as biscuit, cake, doughnut, and pancake flour. Establishments primarily engaged in milling flour from grain are classified in Industry 2041, Flour and Meal.						

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees <sup>1</sup>  (1,000)	Industry ratio (percent)		All employ- ees <sup>1</sup>  (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
20	FOOD AND KINDRED PRODUCTS—Continued						
205	Bakery products.....	291.1	99	99	278.8	99	99
2051	<u>Bread and Related Products</u> (Bread and other Bakery Products, except Biscuit, Crackers and Pretzels)..... Establishments primarily engaged in manufacturing bread, cakes, sweet yeast goods, hand-made cookies, doughnuts, pies, pastries, and similar perishable bakery products, for off-premise sale. Establishments primarily engaged in producing "dry" bakery products such as biscuit, crackers, and pretzels are classified in Industry 2052, Biscuit and Crackers. Establishments producing bakery products primarily for direct sale on the premises to household consumers are classified in Retail Trade, Industry 5462. However, those manufacturing bread, cake, etc., for sale primarily through house-to-house routes are included in Industry 2051, Bread and Related Products.	246.3	98	99	232.7	98	99
2052	<u>Biscuit and Crackers</u> (Biscuit, Crackers and Pretzels)..... Establishments primarily engaged in manufacturing biscuit (except raised biscuit), crackers, sponge goods, dry sweet goods, machine-made cookies, pretzels, and similar "dry" bakery products, such as cracker meal, matzoth, sugar wafers and zwieback and rusk (machine-made). Establishments primarily engaged in producing "perishable" bakery products are classified in Industry 2051, Bread and Related Products.	44.8	97	93	46.1	96	93
206	Sugar.....	130.2	100	100	35.4	100	100
2061	<u>Raw Cane Sugar</u> (Cane Sugar, Except Refining)..... Establishments primarily engaged in manufacturing raw sugar, sirup, or finished (granulated or clarified) cane sugar from sugar cane. Establishments primarily engaged in refining sugar from purchased raw cane sugar and sugar sirup are classified in Industry 2062, Cane Sugar Refining, and corn sirup in Industry 2094, Corn Products.	13.1	<sup>8</sup> 96	97	4.6	<sup>8</sup> 97	100
2062	<u>Cane Sugar Refining</u> ..... Establishments primarily engaged in refining purchased raw cane sugar and liquid sugar. Establishments primarily engaged in manufacturing flavoring sirups or extracts are classified in Industry 2095, Flavorings.	116.1	<sup>8</sup> 100	100	17.4	<sup>8</sup> 100	100
2063	<u>Beet Sugar</u> ..... Establishments primarily engaged in the manufacture of beet sugar from sugar beets.	111.0	<sup>8</sup> 99	100	13.4	100	100
207	Confectionery and related products.....	80.4	97	95	91.7	(NA)	(NA)
2071	<u>Confectionery Products</u> (Candy and Other Confectionery Products)..... Establishments primarily engaged in manufacturing candy and other confections such as chocolate candies (fancy-package, bulk, or count), chocolate covered bars, marshmallows, lozenges, fudge, candied and crystallized fruits, candy-covered nuts, salted nuts, stuffed dates, popcorn balls, and related products. Establishments primarily engaged in manufacturing solid chocolate bars are classified in Industry 2072, Chocolate and Cocoa Products; chewing gum in Industry 2073, Chewing Gum, and cough drops selling at retail for more than 10 cents in Industry 2834, Pharmaceutical Preparations. Establishments primarily manufacturing confectionery for direct sale on the premises, and establishments primarily engaged in shelling and roasting nuts are included in Trade Industries.	66.8	95	96	75.2	97	97

See footnotes at end of table.



Code	Industry title and description	1954			1947		
		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
20	FOOD AND KINDRED PRODUCTS—Continued						
207	Confectionery and related products—Continued						
2072	<u>Chocolate and Cocoa Products</u> ..... Establishments primarily engaged in manufacturing chocolate and cocoa butter from cocoa beans, and in the further manufacture of cocoa, solid chocolate bars, and chocolate coatings. Important products of this industry include solid chocolate, chocolate coatings, powdered cocoa, and cocoa butter. Establishments primarily engaged in manufacturing chocolate candies from purchased chocolate are classified in Industry 2071, Confectionery Products; and instant chocolate and cocoa from purchased chocolate and cocoa in Industry 2099, Food Preparations, N.E.C.	8.5	98	89	9.6	<sup>8</sup> 99	100
2073	<u>Chewing Gum</u> ..... Establishments primarily engaged in the manufacture of non-medicated chewing gum and chewing gum base. Establishments primarily engaged in the manufacture of gum pharmaceutical preparations (medicated chewing gum) are classified in Industry 2834, Pharmaceutical Preparations.	5.2	<sup>8</sup> 95	98	6.9	(D)	(D)
208	Beverages.....	202.8	99	100	202.6	(NA)	(NA)
2081	<u>Bottled Soft Drinks</u> (Bottled Soft Drinks and Carbonated Waters)..... Establishments primarily engaged in manufacturing bottled or canned soft drinks (nonalcoholic beverages) and carbonated waters. Establishments primarily engaged in manufacturing fruit and vegetable juices are classified in Industry 2033, Canned Fruits and Vegetables; fruit sirups for flavoring in Industry 2095, Flavorings, and cider in Industry 2099, Food Preparations, N.E.C. Establishments primarily engaged in bottling natural spring waters are classified in Trade Industries.	91.6	98	99	79.4	99	99
2082	<u>Beer and Ale</u> (Malt Liquors)..... Establishments primarily engaged in manufacturing all kinds of malt liquors such as ale, beer, porter, stout, and malt extract. Establishments primarily engaged in bottling purchased malt liquors are classified in Trade Industries.	81.3	100	100	82.5	100	99
2083	<u>Malt</u> ..... Establishments primarily engaged in manufacturing malt or malt by-products, such as malt sprouts, screening, chaff, and skimmings, from barley or other grains.	2.6	100	100	2.5	100	100
2084	<u>Wines and Brandy</u> (Wines, Brandy, and Brandy Spirits)..... Establishments primarily engaged in manufacturing wines, brandy, and brandy spirits. Bonded storerooms which engage in blending wines are also included in this industry. Establishments primarily bottling purchased wines, brandy and brandy spirits but which do not manufacture or blend wines and brandy are classified in Trade Industries.	<sup>1</sup> 5.7	<sup>9</sup> 90	96	7.7	<sup>9</sup> 90	100
2085	<u>Distilled Liquor, Except Brandy</u> (Distilled, Rectified, and Blended Liquors)..... Establishments primarily engaged in manufacturing alcoholic liquors by distillation and rectification, and in manufacturing cordials and alcoholic cocktails by blending processes, or by mixing liquors and other ingredients. Important products of this industry include grain alcohol (neutral spirits), straight and blended whiskies, rum, gin, cordials, liqueurs, and prepared alcoholic cocktails. Establishments primarily engaged in manufacturing industrial alcohol are classified in Industry 2829, Organic Chemicals, N.E.C., and those only bottling purchased liquors in Trade Industries.	<sup>1</sup> 21.5	99	100	30.4	99	99

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees <sup>1</sup>  (1,000)	Industry ratio (percent)		All employ- ees <sup>1</sup>  (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
20	FOOD AND KINDRED PRODUCTS—Continued						
209	Miscellaneous food preparations and kindred products.....	138.7	95	89	151.8	(NA)	(NA)
2091	<u>Leavening Compounds</u> (Baking Powder, Yeast, and Other Leavening Compounds).. Establishments primarily engaged in the manufacture of baking powder, yeast, and other compounds used for leavening purposes. Establishments primarily engaged in manufacturing yeast tablets for human use are classified in Industry 2834, Pharmaceutical Preparations.	2.7	89	90	3.1	(D)	(D)
2092	<u>Shortening and Cooking Oils</u> (Shortening and Other Cooking and Edible Fats and Oils N.E.C.)..... Establishments primarily engaged in manufacturing edible vegetable and compound shortenings, vegetable cooking oils, salad oils, and other refined table oils not elsewhere classified, by further processing of purchased animal and vegetable oils. Refined salad or cooking oils in- clude those which have been bleached, deodorized, or winterized. Other products included in this industry are mono- and di-glycerides, olive oil, and refined vegetable oils. Establishments primarily engaged in producing margarine are classified in Industry 2093, Margarine; corn oil in Industry 2094, Corn Wet Milling; and cottonseed, linseed, soybean, marine, and other animal and vegetable oils in Group 288, Vegetable and Animal Oils.	19.4	85	89	8.0	82	96
2093	<u>Margarine</u> (Oleomargarine)..... Establishments primarily engaged in manufacturing margarine, nut margarine, etc.	12.6	90	62	2.6	81	73
2094	<u>Corn Wet Milling</u> (Corn Sirup, Corn Sugar, Corn Oil, and Starch)..... Establishments primarily engaged in manufacturing sirup, sugar, oil, and starch from corn (wet-process corn milling). Establishments pri- marily engaged in manufacturing potato, rice, wheat, root, and other starches are also included in this industry. Establishments primarily engaged in manufacturing mixed or blended sweetening sirups containing corn sirup are classified in Industry 2099, Miscellaneous Food Preparations, N.E.C., and those primarily engaged in manufacturing corn meal and grits are classified in Industry 2041, Flour and Meal.	13.6	91	96	12.3	88	96
2095	<u>Flavorings</u> (Flavoring Extracts and Flavoring Sirups, N.E.C.)..... Establishments primarily engaged in manufacturing flavoring extracts, sirups, and fruit juices, not elsewhere classified, for soda fountain use or for the manufacture of soft drinks, and colors for bakers' and confectioners' use. Important products of this industry include flavoring extracts, flavoring concentrates; flavoring powders and pastes; burnt-sugar and other food colors; flavoring sirups; and crushed fruit for fountain use. Establishments primarily engaged in manufacturing frozen concentrated fruit juices are classified in Industry 2037, Frozen Fruits and Vegetables; chocolate sirups in Industry 2072, Chocolate and Cocoa Products; mixed or blended sweetening sirups and molasses in Industry 2099, Miscellaneous Food Preparations, N.E.C., and synthetic food dyes and colors in Industry 2822, Intermediate Coal Tar Products.	10.6	91	87	11.7	93	89
2097	<u>Manufactured Ice</u> ..... Establishments primarily engaged in manufacturing ice for sale. Estab- lishments primarily engaged in manufacturing dry ice are classified in Industry 2896, Compressed and Liquefied Gases. Establishments pri- marily engaged in harvesting and storage of natural ice for sale and cold storage warehouses manufacturing ice are excluded from the Census of Manufactures.	120.9	100	97	46.5	100	98

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees <sup>1</sup>  (1,000)	Industry ratio (percent)		All employ- ees <sup>1</sup>  (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
20	FOOD AND KINDRED PRODUCTS—Continued						
209	Miscellaneous food preparations and kindred products—Continued						
2098	<u>Macaroni and Spaghetti</u> (Macaroni, Spaghetti, Vermicelli, and Noodles)..... Establishments primarily engaged in manufacturing macaroni, spaghetti, vermicelli, and noodles. Establishments primarily engaged in manufacturing packaged macaroni or spaghetti dinners with cheese or sauce (except canned) are also included in this industry. Establishments primarily engaged in manufacturing canned spaghetti are classified in Industry 2033, Canning and Preserving, Except Fish.	7.1	98	95	8.0	898	99
2099	<u>Miscellaneous Food Preparations, N.E.C.</u> ..... Establishments primarily engaged in manufacturing prepared foods and miscellaneous food specialties not elsewhere classified, such as baked beans (not canned); bakers', confectioners', and household supplies (including chili pepper and powder, desiccated and shredded coconut, marshmallow creme, pie and cake fillings, and powdered sugar); bouillon cubes; brown bread (canned, Boston, and other); coffee; instant chocolate and cocoa; ready-to-mix desserts; egg albumen; eggs (dehydrated), desiccated, processed, canned, liquid and frozen); "health foods"; ice-cream cones and wafers; Italian, Spanish, Mexican, and Chinese cakes and other "native" preparations; meat pies; mincemeat; molasses (mixed or blended); peanut products (except peanut candy and salted peanuts); pectin; potato chips; ravioli; spices and meat seasonings; sweetening sirups (including honey, maple sirup, and sorghum); tea, packaged and blended; vinegar and cider. Establishments primarily engaged in manufacturing instant chocolate and cocoa from purchased chocolate are included in this industry; in Industry 2072, Chocolate and Cocoa Products, if the establishment manufactures chocolate primarily from cocoa beans. Establishments primarily engaged in roasting coffee are included in Industry 2099, but coffee roasting done by wholesale grocers is classified in Trade Industries. Establishments primarily engaged in the grading and packaging and sale of shell eggs are also classified in Trade Industries.	172.0	94	86	59.6	92	80
21	TOBACCO MANUFACTURES  This major group includes establishments engaged in manufacturing cigarettes, cigars, smoking and chewing tobacco, and snuff, and in stemming and redrying tobacco. The manufacture of insecticides from tobacco by-products is included in Major Group 28, Chemicals and Products.						
211	Cigarettes.....	130.0	99	100	27.7	96	100
2111	<u>Cigarettes</u> ..... Establishments primarily engaged in the manufacture of cigarettes.	130.0	99	100	27.7	96	100
212	Cigars.....	138.5	99	100	47.1	99	100
2121	<u>Cigars</u> ..... Establishments primarily engaged in the manufacture of cigars.	138.5	99	100	47.1	99	100
213	Chewing and smoking tobacco.....	17.5	96	89	11.1	98	86
2131	<u>Chewing and Smoking Tobacco</u> (Tobacco, Chewing and Smoking, and Snuff)..... Establishments primarily engaged in the manufacture of chewing and smoking tobacco and snuff.	17.5	96	89	11.1	98	86

See footnotes at end of table.



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			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
21	TOBACCO MANUFACTURES—Continued						
214	Tobacco stemming and redrying.....	118.8	100	99	25.9	100	98
2141	<u>Tobacco Stemming and Redrying.....</u> Establishments primarily engaged in the stemming and/or redrying of tobacco. Establishments primarily engaged in producing scrap filler for cigars are also included in this industry.	118.8	100	99	25.9	100	98
22	TEXTILE MILL PRODUCTS  This major group includes establishments engaged in performing any of the following operations regardless of the type of fiber used: (1) manufacturing yarn, thread, cordage, and twine (2) manufacturing woven fabric, carpets and rugs, braids, laces, knit fabric, knit garments, carpets and rugs, and other products from yarn (3) dyeing and finishing fibers, yarn, and fabrics; and (4) coating, waterproofing and otherwise treating fabric. Establishments weaving or knitting fabrics and also manufacturing finished apparel or other fabricated textile products in the same establishment are included in this major group; those manufacturing apparel and other fabricated textile products from fabrics knit or woven elsewhere are classified in Major Group 23, Apparel and Related Products. Knitwear converters buying raw materials, arranging for the knitting and finishing, and selling the final product are included as manufacturers in Group 225, Knitting Mills; however, other textile converters, jobbers, or dealers are classified in Trade Industries. Establishments primarily engaged in sponging, shrinking, burling or mending of cloth for the trade or employing home workers for hand-knitting or hand-weaving of textile products, are included in Industry 2399, Fabricated Textile Products, N.E.C. The rubberizing of fabrics is classified in Major Group 30, Rubber Products.						
221	Woolen and worsted manufactures.....	91.5	97	93	179.7	(NA)	(NA)
2211	<u>Scouring and Combing Plants.....</u> Establishments primarily engaged in processing textile fibers to prepare them for spinning. Important processes included in this industry are wool scouring and carbonizing, and producing tops on worsted combs from wool, rayon, or other synthetic fibers. Establishments primarily engaged in the production of top from tow without combing and in the production of nubs and slubs are also included in Industry 2211. By-products of the industry include noils and recovered wool grease. Plants primarily engaged in processing textile mill waste for spinning and in recovering fibers from clips and rags, are classified in Industry 2294, Processed Textile Waste.	7.0	83	60	8.4	(NA)	(NA)
2212	<u>Yarn Mills, Wool, Except Carpet (Part of S.I.C. Industry 2221, Yarn Mills).....</u> Establishments primarily engaged in spinning, twisting, winding, or spooling yarn, except carpet and rug yarn, on the woolen or worsted system. This includes yarn spun on the French, Bradford and American systems of worsted spinning. Establishments primarily engaged in manufacturing woolen or worsted carpet and rug yarns are classified in Industry 2271, Wool Carpets, Rugs, and Carpet Yarn.	17.8	93	85	33.2	90	81
2213	<u>Woolen and Worsted Fabrics (Equivalent to S.I.C. Industry 2232, Broad Woven Fabric Mills, Woolen and Worsted).....</u> Establishments primarily engaged in weaving woolen and worsted fabrics over 12 inches in width. Important products of this industry include woolen and worsted apparel fabrics, household fabrics, industrial and mechanical fabrics; and woven felts and haircloth. Establishments primarily engaged in weaving wool carpets and rugs are classified in Industry 2271, Wool Carpets and Rugs.	62.5	92	95	132.3	90	97

See footnotes at end of table.

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			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
22	TEXTILE MILL PRODUCTS—Continued						
221	Woolen and worsted manufactures—Continued						
2216	<u>Finishing Wool Textiles</u> (Equivalent to S.I.C. Industry 2262, Dyeing and Finishing Woolen and Worsted Goods)..... Establishments primarily engaged in dyeing and finishing woven woolen or worsted fabrics or in dyeing wool, tops, or yarn	4.2	(11)	(11)	5.8	(11)	(11)
222	Yarn and thread mills, except wool.....	111.0	95	93	151.0	(NA)	(NA)
2222	<u>Yarn Throwing Mills</u> ..... Establishments primarily engaged in throwing or twisting filament yarn (continuous strands) of silk, rayon, or other synthetic fibers. Establishments primarily engaged in the winding and warping of filament yarn are also included in this industry; those engaged in similar operations on spun yarn are classified in Industry 2224, Yarn Mills, Cotton System.	11.8	93	79	14.9	(NA)	(NA)
2223	<u>Thread Mills</u> ..... Establishments primarily engaged in manufacturing thread of cotton, wool, silk, rayon or other synthetic fibers. Important products of this industry include sewing, crochet, darning, embroidery, tatting, and hand-knitting threads. Establishments primarily engaged in finishing thread are also included in this industry. Establishments primarily engaged in manufacturing flax thread are included in Industry 2299, Textile Goods, N.E.C.; and cordage and twine in Industry 2298, Cordage and Twine.	13.9	88	94	14.7	85	(NA)
2224	<u>Yarn Mills, Cotton and Silk System</u> (Part of S.I.C. Industry 2221, Yarn Mills, Cotton, Wool, Silk, and Synthetic Fiber)..... Establishments primarily engaged in the spinning of yarn on the cotton or silk system from cotton, wool, silk, rayon, or other man-made staple fibers, or in the manufacture of tire cord and fabric. Establishments primarily engaged in twisting, winding, plying, or spooling of spun yarns are also included in this industry. Important products of this industry include weaving, machine-knitting, hand-knitting, crochet, darning and embroidery yarns; tire cord and fabric.	85.3	95	92	121.4	(NA)	(NA)
223	Broad-woven fabrics.....	386.2	95	88	427.8	(NA)	(NA)
2233	<u>Cotton Broad-Woven Fabrics</u> (Part of S.I.C. Industry 2231, Broad-Woven Fabric Mills, Cotton, Silk, and Synthetic Fiber)..... Establishments primarily engaged in weaving fabrics over 12" in width, of cotton or mixtures in which cotton is the principal fiber by weight. Important products of this industry include apparel fabrics, and mechanical and industrial fabrics of cotton; such as duck, osnaburgs, sheetings, print cloth, flannels, denims, shirtings, towelings, draperies and upholstery fabrics. Establishments weaving gray goods and further processing them into finished fabrics or fabricated textile products such as sheets, towels, bedspreads, etc., are classified in this industry. Establishments primarily engaged in weaving cotton carpets and rugs are classified in Industry 2273, Carpets and Rugs, Except Wool.	296.2	94	84	330.2	(NA)	(NA)
2234	<u>Synthetic-Broad Woven Fabrics</u> (Part of S.I.C. Industry 2231, Broad-Woven Fabric Mills, Cotton, Silk, and Synthetic Fiber)..... Establishments primarily engaged in weaving fabrics over 12" in width of silk or man-made fibers, including mixtures in which those fibers are the principal fiber by weight. Paper and glass broad woven fabrics are included in this industry. Important products of the industry include apparel fabrics, household fabrics, and industrial and mechanical fabrics of the specified fibers.	90.0	87	90	97.6	85	(NA)

See footnotes at end of table.

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			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
22	TEXTILE MILL PRODUCTS—Continued						
224	Narrow fabric mills.....	25.7	96	94	28.1	95	98
2241	<u>Narrow Fabric Mills</u> (Narrow Fabrics and Other Smallwares Mills: Cotton, Wool, Silk, and Synthetic Fiber).....	25.7	96	94	28.1	95	98
	Establishments primarily engaged in weaving or braiding fabrics 12" or narrower in width of cotton, wool, silk, rayon, or other synthetic fibers. Establishments primarily engaged in weaving or braiding fabrics 12" or narrower in width of fabric-covered elastic yarn are also included in this industry. Important products of this industry include fabric belting (mechanical and apparel), ribbons, tapes, bindings, and gimps, woven labels, hatbands, elastic and nonelastic webbing, covered rubber yarns and threads, and fabric lacings.						
225	Knitting mills.....	221.4	98	(NA)	229.3	(NA)	(NA)
2251	<u>Full-Fashioned Hosiery Mills</u> .....	60.2	<sup>90</sup> 90	<sup>90</sup> 90	70.0	<sup>90</sup> 90	<sup>90</sup> 90
	Establishments primarily engaged in knitting, dyeing and finishing full-fashioned hosiery. Establishments seaming and looping full-fashioned hosiery are also included in this industry.						
2252	<u>Seamless Hosiery Mills</u> .....	63.4	96	93	64.9	96	91
	Establishments primarily engaged in knitting, dyeing or finishing seamless (circular knit) hosiery. The principal products of this industry are seamless hosiery, finished or sold as greige goods, including anklets, slipper socks, pads, and athletic socks.						
2253	<u>Knit Outerwear Mills</u> .....	46.4	93	73	34.5	91	82
	Establishments primarily engaged in knitting outerwear, or in manufacturing outerwear from knit fabric produced in the same establishment. Establishments primarily engaged in hand knitting outerwear for the trade are also included in this industry. Important products of Industry 2253 include sweaters, bathing suits, dresses, and headwear. Establishments primarily engaged in manufacturing gloves and mittens are classified in Industry 2255, Knit-Glove Mills, Group 238, Miscellaneous Apparel or Group 315, Leather Gloves and those manufacturing outerwear from woven fabric or purchased knit fabric in Major Group 23, Apparel and Related Products.						
2254	<u>Knit Underwear Mills</u> .....	31.3	88	39	40.6	87	70
	Establishments primarily engaged in knitting underwear and nightwear, or in manufacturing underwear and nightwear from knit fabric produced in the same establishment. Establishments primarily engaged in manufacturing underwear and nightwear from woven fabric or purchased knit fabric are classified in Major Group 23, Apparel and Related Products.						
2255	<u>Knit Glove Mills</u> .....	2.0	86	20	4.8	91	34
	Establishments primarily engaged in knitting or crocheting gloves and mittens, or in manufacturing gloves and mittens from knit fabric produced in the same establishment. Establishments primarily engaged in manufacturing gloves and mittens from purchased knit fabric are classified in Group 238, Miscellaneous Apparel.						

See footnotes at end of table.



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			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
22	TEXTILE MILL PRODUCTS—Continued						
225	Knitting mills—Continued						
2256	Knit Fabric Mills..... Establishments primarily engaged in knitting tubular or flat fabric (in- cluding warp-knit mosquito metting) and in dyeing or finishing knit fa- brie. Included in Industry 2256 are knit fabric mills operated by multi-plant companies which transfer the knit cloth to other plants of the same company for further fabrication into such products as knit underwear and gloves. The plants cutting and sewing the knit cloth are classified in one of the industries in Major Group 23, Apparel and Re- lated Products. On the other hand, if the knitting mill is integrated in that it both makes the knitted cloth and knitted apparel, it is classified in one of the knitting industries in Group 225.	16.8	94	91	13.5	93	88
2259	Knitting Mills, N.E.C..... Establishments primarily engaged in knitting articles not elsewhere classified, such as knit curtains, washcloths, dishcloths, and towels. Establishments primarily engaged in manufacturing from purchased fa- brics, curtains and draperies, are classified in Industry 2391, Cur- tains and Draperies, and housefurnishings such as sheets, pillowcases, blankets, bedspreads, etc., are classified in Industry 2392, Housefur- nishings.	1.4	62	75	1.0	98	89
226	Finishing textiles, except wool.....	79.3	86	41	78.0	(NA)	(NA)
2261	Finishing Textiles, Except Wool (Dyeing and Finishing Textiles, Except Woolen and Worsted Textiles and Knit Goods)..... Establishments primarily engaged in bleaching, dyeing, printing, finish- ing or otherwise processing fabrics, yarn, or raw stock other than woolen or worsted. Plants primarily engaged in flocking or sueding of fabrics or printing or embossing on plastic are also included in this industry. Establishments primarily engaged in dyeing or finishing knit goods are classified in Industry Group 225, Knitting Mills; and in fin- ishing woolen and worsted goods, in Industry 2216, Finishing Wool Tex- tiles (Census equivalent of Standard Industrial Classification Industry 2262). The sponging and shrinking of cloth is included in Industry 2399, Fabricated Textile Products, N.E.C. Establishments manufacturing basic textiles (yarn or fabric) are classified as yarn mills or woven fabric mills, Industries 2222, 2223, 2224, 2233, or 2234, even though all or a part of the shipments con- sist of finished products. This practice differs from that employed for most industries, where the primary product shipped determines the industrial classification. The exception was made here in the Stan- dard Industrial Classification because in an integrated mill the basic textile operation usually constitutes the primary activity, in terms of labor and capital input.	79.3	86	41	78.0	(NA)	(NA)
227	Carpets, rugs, and other floor coverings.....	51.2	95	98	57.1	(NA)	(NA)
2271	Wool Carpets and Rugs (Wool carpets, Rugs and Carpet Yarn)..... Establishments primarily engaged in weaving carpets and rugs wholly or in part of woolen or worsted yarn. This industry also includes estab- lishments primarily engaged in spinning woolen or worsted yarn for use in carpets and rugs. Important products of this industry include woven wool carpets and rugs (Axminster, Wilton, plain or printed velvet, chenille, Smyrna; wool automobile and aircraft floor covering; and carpet woolen and worsted system yarn.) Establishments primarily engaged in spinning woolen or worsted yarn for other than carpets and rugs are classified in Industry 2212 (Part of Standard Industrial Classification 2211), Yarn Mills.	30.1	90	95	40.1	90	95

See footnotes at end of table.

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			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
22	TEXTILE MILL PRODUCTS—Continued						
227	Carpets, rugs, and other floor coverings—Continued						
2273	<u>Carpets and Rugs, Except Wool</u> (Carpets, Rugs, and Mats from Fiber, Except Wool)..... Establishments primarily engaged in manufacturing rugs, carpets, art squares, floor mattings, and door mats and mattings from any fiber except wool. Materials used include cotton, rayon, nylon, twisted paper, grasses, reeds, coir (cocoa fiber), sisal, jute, and rags. Establishments primarily engaged in dyeing floor coverings (other than wool) are also included in this industry.	11.5	95	83	7.1	84	86
2274	<u>Hard-Surface Floor Coverings</u> (Linoleum, Asphalted-Felt-Base, and Other Hard-Surface Floor Coverings, N.E.C.)..... Establishments primarily engaged in manufacturing linoleum, cork carpets, asphalted-felt-base and other hard-surface floor coverings, not elsewhere classified. Establishments primarily engaged in manufacturing supported plastic floor and wall covering are also included in this industry, but those primarily engaged in extruding plastic sheeting and tile (unsupported) are classified in Industry 3971, Fabricated Plastic Products, N.E.C. Establishments primarily engaged in manufacturing rubber floor covering are classified in Industry 3099, Rubber Industries, N.E.C., and asphalt floor tile in Industry 3292, Asbestos Products.	19.6	85	97	9.9	91	100
228	Hats (except cloth and millinery).....	13.0	98	98	21.4	(NA)	(NA)
2281	<u>Fur-Felt Hats and Hat Bodies</u> ..... Establishments primarily engaged in manufacturing fur-felt hat bodies from hatters' fur, in manufacturing finished fur-felt hats from hat bodies produced in the same establishment, and in manufacturing men's and boys' finished fur-felt hats from purchased hat bodies.	8.2	92	93	13.0	94	97
2282	<u>Wool-Felt Hats and Hat Bodies</u> ..... Establishments primarily engaged in manufacturing wool-felt hat bodies from raw wool and wool waste, in manufacturing wool-felt hats from hat bodies produced in the same establishment, and in manufacturing men's and boys' finished wool-felt hats from purchased hat bodies.	1.8	82	96	4.4	76	97
2283	<u>Straw Hats</u> ..... Establishments primarily engaged in manufacturing straw hat bodies, in manufacturing straw hats from hat bodies produced in the same establishment, and in manufacturing men's and boys' finished straw hats from purchased hat bodies.	2.3	87	75	2.4	83	74
2284	<u>Hatters' Fur</u> ..... Establishments primarily engaged in producing hatters' fur for use as material in manufacturing fur-felt bodies.	.8	95	100	1.5	(D)	(D)
229	Miscellaneous textile goods.....	58.2	93	90	60.0	(NA)	(NA)
2291	<u>Felt Goods, N.E.C.</u> (Felt Goods, Except Woven Felts and Hats)..... Establishments primarily engaged in manufacturing insulating and automotive felts, under-rug mats, and other felt goods, from wool, hair, and jute, by means of heat, moisture, and pressure, or by the needle-loom process. Establishments primarily engaged in manufacturing wool woven felts and haircloth are classified in Industry 2213, Woolen and Worsted Fabrics; felt hats in Group 228, Hats, Except Cloth and Millinery; and building paper felt, Industry 2613, Building Paper and Board Mills.	6.0	90	92	4.7	95	97

See footnotes at end of table.

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			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
22	TEXTILE MILL PRODUCTS—Continued						
229	Miscellaneous textile goods—Continued						
2292	Lace Goods..... Establishments primarily engaged in manufacturing lace-machine products such as levers laces, bobbinet. Nottingham lace (curtain nets, curtains, bedspreads, table covers), and Barmen lace. This industry also includes establishments primarily engaged in dyeing and finishing lace goods. Establishments primarily engaged in manufacturing machine embroidery are classified in Industry 2397, Schiffli-Machine Embroideries or 2398, Embroideries, Except Schiffli.	7.4	99	94	8.6	94	97
2293	Paddings and Upholstery Filling..... Establishments primarily engaged in manufacturing batting, padding, wadding, and upholstery filling from curled hair, cotton, moss, hemp tow, flax tow, kapok, and related materials. Establishments primarily manufacturing hard fiber automotive and other pads are also included in this industry. Establishments primarily engaged in manufacturing excelsior pads and wrappers are classified in Industry 2425, Excelsior Mills.	9.1	91	90	8.3	96	92
2294	Processed Textile Waste (Processed Waste and Recovered Fibers)..... Establishments primarily engaged in processing textile-mill waste for spinning and other uses, and in recovering cotton, wool, rayon, silk, and other fibers from clippings and rags. Establishments primarily engaged in manufacturing oakum are also included in this industry. Establishments primarily engaged in processing wiping rags are classified in Wholesale Trade. Sales by textile mills of "original" mill waste such as card strips, comber noils and sweepings are not included as processed textile waste.	5.8	96	93	5.8	94	94
2295	Coated Fabrics, Except Rubberized (Artificial Leather, Oilcloth, and Other Impregnated and Coated Fabrics, Except Rubberized)..... Establishments primarily engaged in manufacturing artificial leather, oilcloth, and other coated and impregnated fabrics, and in the finishing of textiles such as the waxing of cloth and finishing of cambric and buckraw. Establishments primarily engaged in waterproofing, flameproofing, mildew proofing, mercerizing, and embossing textile fabrics are classified in Industry 2261, Finishing Textiles, Except Wool. Establishments primarily engaged in manufacturing coated and processed paper, including varnished and leatherette paper, are classified in Industry 2641, Paper Coating and Glazing; and those manufacturing rubberized fabrics in Industry 3099, Rubber Industries, N.E.C.	18.5	86	82	8.6	84	82
2298	Cordage and Twine..... Establishments primarily engaged in manufacturing rope, cable, cordage, twine, nets, and seines and related goods, from hemp, jute, cotton, paper, flax, and other fibers. Establishments primarily engaged in manufacturing cotton yarns for cordage, rope and twine are classified in Industry 2224, Yarn Mills, Cotton System; and linen nets and seines in Industry 2299, Textile Goods, N.E.C.	12.3	90	89	16.4	87	87
2299	Textile Goods, N.E.C. (Includes S.I.C. Industry 2297, Jute Goods, Except Felt, and Industry 2299, Textile Goods, N.E.C.)..... Establishments primarily engaged in manufacturing linen goods, jute goods, except felts and other textile goods, not elsewhere classified. Important products of this industry include flax yarn and thread; linen fabrics; jute yarn, roving, webbing and bagging; non-woven (bonded) fiber fabrics; novelty yarns made from purchased yarns, glass fiber yarn and cord; paper yarns; metallic yarns; hemp and ramie yarn, thread, and textiles; rope slings and scaffolds; and linen nets and seines. Establishments primarily engaged in manufacturing linen or jute cordage and twine are classified in Industry 2298, Cordage and Twine. Establishments primarily engaged in manufacturing jute felts are classified in Industry 2291, Felt Goods (Except Woven Felts and Hats).	9.0	88	81	7.6	87	76

See footnotes at end of table.



Code	Industry title and description	1954			1947		
		All employ- ees <sup>1</sup>  (1,000)	Industry ratio (percent)		All employ- ees <sup>1</sup>  (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
23	<p>APPAREL AND RELATED PRODUCTS</p> <p>This major group of industries are generally known as the cutting up and needle trades industries, and include establishments producing clothing and fabricated textile products by cutting and sewing purchased woven or knit textile fabrics and related materials such as leather, rubberized fabrics, plastics and furs. There are three types of establishments which operate in the apparel industries included in Major Group 23: (1) the regular factories or "manufacturers"; (2) the apparel "jobbers"; and (3) the contract factories or "contractors". The "manufacturers" purchase fabric, employ production workers in their own plants to cut and sew the materials into apparel, and sell the final product; in effect, such establishments perform all of the usual manufacturing functions within their own establishments. The "jobbers", on the other hand, primarily perform the entrepreneurial functions of a manufacturing company such as buying raw materials, designing and preparing samples, arranging for the manufacture of the garments from their materials, and selling of the finished apparel. The actual processing (cutting, sewing, etc.) is performed on contract by the apparel contractors, although many jobbers perform the cutting operation in their own establishments.</p> <p>Excluded from Major Group 23 are knitting mills primarily engaged in manufacturing apparel from yarns knitted in the same establishment; such plants are included in Group 225, Knitting Mills. Furthermore, establishments primarily engaged in manufacturing felt and straw hats, except millinery, are included in Group 228, Hats, Except Cloth and Millinery; those producing leather shoes and gloves in Major Group 31, Leather and Leather Products; and rubber footwear in Industry 3021, Rubber Footwear. Custom tailors and dressmakers, who manufacture and sell apparel in the same retail establishment, are classified as nonmanufacturing. Similarly, establishments which are primarily wholesalers or dealers in that they purchase and resell finished garments but do not perform the functions of the apparel jobbers described below are classified in Wholesale Trade.</p>						
231	Men's and boys' suits and coats.....	121.7	91	96	151.1	92	97
2311	<p><u>Men's and Boys' Suits and Coats</u> (Men's, Youths', and Boys' Suits, Coats, and Overcoats).....</p> <p>Establishments primarily engaged in manufacturing men's, youths', boys' suits, coats, and overcoats. Establishments primarily engaged in manufacturing uniforms (military, policemen's, firemen's, etc.) and tailored dress and sport coats, including sport and leisure jackets, are also included in this industry. Establishments primarily engaged in manufacturing men's work and sport garments (such as lumber-jackets, ski suits, and riding garments) are classified in Group 232, Men's and Boys' Furnishings, Work Clothing and Allied Garments.</p>	119.0	91	96	147.1	92	97
2312	<p><u>Suit and Coat Findings</u>.....</p> <p>Establishments primarily engaged in manufacturing suit and coat findings such as coat fronts, interlinings, collar linings, trouser waistbands, and shoulder pads, or in making buttonholes for men's, youths', and boys' coats and suits.</p>	2.7	98	95	4.0	99	99

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
23	APPAREL AND RELATED PRODUCTS—Continued						
232	Men's and boys' furnishings.....	285.6	94	81	253.0	(NA)	(NA)
2321	Men's Dress Shirts and Nightwear (Men's, Youths', and Boys' Shirts, Except Work Shirts, Collars, and Nightwear)..... Establishments primarily engaged in manufacturing men's, youths', and boys' shirts, collars, and nightwear cut and sewed from purchased woven or knit fabric. Establishments primarily engaged in manufacturing knit outerwear sport shirts, including polo, tennis, basque, and T-shirts, cut and sewed from purchased knit fabric are also classified in Industry 2321. Establishments primarily engaged in manufacturing work shirts are classified in Industry 2328, Work Shirts. Knitting mills primarily engaged in manufacturing nightwear are classified in Industry 2254, Knit Underwear Mills, and knit sport shirts in Industry 2253, Knit Outerwear Mills.	108.3	90	85	94.2	94	87
2322	Men's and Boys' Underwear (Men's, Youths', and Boys' Underwear)..... Establishments primarily engaged in manufacturing men's, youths', and boys' underwear cut and sewed from purchased woven or knit fabric. Knitting mills primarily engaged in manufacturing underwear are classified in Industry 2254, Knit Underwear Mills.	9.4	88	28	7.3	95	21
2323	Men's and Boys' Neckwear (Men's, Youths', and Boys' Neckwear)..... Establishments primarily engaged in manufacturing men's, youths', and boys' neckties, scarfs, and mufflers cut and sewed from purchased woven or knit fabric. Knitting mills primarily engaged in manufacturing neckties, scarfs, and mufflers are classified in Industry 2253, Knit Outerwear Mills.	9.5	98	92	10.7	97	91
2325	Men's and Boys' Cloth Hats (Men's, Youths', and Boys' Cloth Hats and Caps). Establishments primarily engaged in manufacturing men's, youths', and boys' hats and caps from purchased knit or woven fabric, such as baseball and other cloth sport hats; chauffeurs', policemen's, and other uniform hats (including women's civilian and military uniform hats and caps) and miscellaneous cloth hats and caps. Establishments primarily engaged in manufacturing fur-felt hats are classified in Industry 2281, Fur-Felt Hats and Hat Bodies; wool-felt hats in Industry 2282, Wool-Felt Hats and Hat Bodies; and straw hats in Industry 2283, Straw Hats. Knitting mills primarily engaged in manufacturing caps are classified in Industry 2253, Knit Outerwear Mills.	8.1	97	87	5.5	96	82
2326	Hat and Cap Materials..... Establishments primarily engaged in manufacturing hat and cap findings such as cap visors, sweatbands, and trimmings from purchased materials. Establishments primarily engaged in tip printing or stamping are also included in this industry. Establishments primarily engaged in manufacturing hatters' fur are classified in Industry 2284, Hatters' Fur.	.9	99	94	1.1	97	99
2327	Separate Trousers (Men's, Youths', and Boys' Separate Trousers)..... Establishments primarily engaged in manufacturing men's, youths', and boys' separate trousers. Establishments primarily engaged in manufacturing trousers as a part of complete suits are classified in Industry 2311, Men's and Boys' Suits and Coats, and work pants and washable service slacks in Industry 2329, Men's and Boys' Clothing, N.E.C.	51.7	89	74	47.3	86	70
2328	Work Shirts..... Establishments primarily engaged in manufacturing work shirts. Establishments primarily engaged in manufacturing men's, youths', and boys' dress and sport shirts from purchased fabric are classified in Industry 2321, Men's Dress Shirts and Nightwear. Knitting mills primarily engaged in manufacturing knit sport shirts (polo, T-shirts, etc.) are classified in Industry 2253, Knit Outerwear Mills.	7.0	97	35	12.1	77	67

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees <sup>1</sup>  (1,000)	Industry ratio (percent)		All employ- ees <sup>1</sup>  (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
23	APPAREL AND RELATED PRODUCTS—Continued						
232	Men's and boys' furnishings—Continued						
2329	<u>Men's and Boys' Clothing, N.E.C.</u> (Men's, Youths', and Boys' Work, Sport, and Other Clothing, N.E.C.).....	90.8	79	78	74.8	82	76
	Establishments primarily engaged in manufacturing men's, youths', and boys' work, sport, and other clothing not elsewhere classified. Important products of this industry include overalls, work pants, industrial garments, washable service apparel, oiled-fabric work garments, mackinaws, lumberjackets, blanket-lined coats, ski and snow suits, and hunting and riding garments. Establishments primarily engaged in manufacturing separate trousers are classified in Industry 2327, Separate Trousers, and leather and sheep-lined garments in Industry 2386, Leather and Sheep-Lined Clothing. Knitting mills primarily engaged in manufacturing outerwear are classified in Industry 2253, Knit Outerwear Mills.						
233	Women's and misses' outerwear.....	363.9	98	92	313.1	(NA)	(NA)
2331	<u>Blouses</u> (Women's and Misses' Blouses and Waists).....	43.0	93	85	32.9	93	88
	Establishments primarily engaged in manufacturing women's, misses', and juniors' blouses, waists, and shirts. Establishments engaged in the manufacture of women's, misses', and juniors' knit outerwear sport shirts (polo, tennis, basque, etc.) from yarns knit in the same establishment are classified in Industry 2253, Knit Outerwear Mills; knit outerwear sport shirts made from purchased knit fabric are classified in Industry 2339, Women's Outerwear, N.E.C.						
2333	<u>Dresses, Unit Price</u> (Women's and Misses' Dresses).....	143.3	96	95	133.8	95	97
	Establishments primarily engaged in manufacturing women's and misses' dresses, including ensemble dresses. The garments manufactured by establishments classified in this industry are usually sold by the piece. Establishments primarily engaged in manufacturing aprons, smocks, hooovers, and house dresses, usually sold by the dozen, are classified in Industry 2334, Dresses, Dozen Price. Knitting mills primarily engaged in manufacturing women's, misses', and juniors' knit dresses and suits are classified in Industry 2253, Outerwear Mills.						
2334	<u>Dresses, Dozen Price</u> (Household Apparel).....	54.5	94	96	48.6	89	96
	Establishments primarily engaged in manufacturing women's and misses' household apparel, chiefly of washable fabrics. The garments manufactured by establishments classified in this industry are usually sold by the dozen, and include such articles as aprons, smocks, hooovers, house dresses, and nurses' and maids' uniforms. Establishments primarily engaged in manufacturing aprons, smocks, hooovers, etc., of plastic or rubberized fabrics are classified in Industry 2385, Waterproof Outer-garments; aprons, smocks, hooovers, etc., of vulcanized rubber in Industry 3099, Rubber Industries, N.E.C.						
2337	<u>Women's Suits, Coats and Skirts</u> (Women's and Misses' Suits, Coats, Except, Fur Coats, and Skirts).....	96.0	94	93	82.7	95	93
	Establishments primarily engaged in manufacturing women's and misses' suits, ensemble suits, skirts, and coats other than fur. Establishments primarily engaged in manufacturing women's and misses' jackets (except leather), fur-trimmed coats and uniform coats, suits, and jackets are also included in Industry 2337. Establishments primarily engaged in manufacturing fur garments are classified in Industry 2371, Fur Goods; and knitting mills primarily engaged in manufacturing outerwear in Industry 2253, Knit Outerwear Mills. Establishments primarily engaged in manufacturing women's and misses' ski, snow, and slack suits, play garments, slacks, and work jackets are classified in Industry 2339, Women's Outerwear, N.E.C.						

See footnotes at end of table.



Code	Industry title and description	1954			1947		
		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
23	APPAREL AND RELATED PRODUCTS--Continued						
233	Women's and misses' outerwear--Continued						
2338	Women's Neckwear and Scarfs..... Establishments primarily engaged in manufacturing women's neckwear, scarfs, and dickies cut and sewed from purchased woven or knit fabric. Knitting mills primarily engaged in manufacturing neckwear or scarfs are classified in Industry 2253, Knit Outerwear Mills.	1.7	95	75	2.8	96	96
2339	Women's Outerwear, N.E.C. (Women's and Misses' Outerwear, N.E.C.)..... Establishments primarily engaged in manufacturing women's and misses' outerwear, n.e.c., such as bathing suits, beachwear, slacks, riding habits, ski suits, swimwear, sweaters, and outerwear sport shirts, cut and sewed from purchased woven or knit fabric. Knitting mills primarily engaged in manufacturing outerwear are classified in Industry 2253, Knit Outerwear Mills.	25.4	82	44	12.4	70	33
234	Women's and children's undergarments.....	112.2	96	88	94.6	(NA)	(NA)
2341	Women's and Children's Underwear (Women's, Misses', Children's, and Infants' Underwear and Nightwear)..... Establishments primarily engaged in manufacturing women's, misses, children's, and infants' underwear and nightwear cut and sewed from purchased woven or knit fabric. Knitting mills primarily engaged in manufacturing underwear and nightwear are classified in Industry 2254, Knit Underwear Mills.	73.4	95	85	58.0	95	78
2342	Corsets and Allied Garments..... Establishments primarily engaged in manufacturing corsets and corset accessories, brassieres, girdles, foundation garments, and similar body supporting garments. Establishments engaged in manufacturing surgical and orthopedic appliances are classified in Industry 3842, Surgical Appliances and Supplies.	38.8	96	95	36.6	94	96
235	Millinery.....	20.2	99	98	20.9	99	98
2351	Millinery..... Establishments primarily engaged in manufacturing women's, misses', children's, and infants' trimmed hats from felt or straw hat bodies and purchased millinery materials. Establishments primarily engaged in manufacturing fur-felt and wool-felt hat bodies and finished hats made from hat bodies manufactured in the same establishment are classified in Group 228, Hats, Except Cloth and Millinery; women's uniform hats and caps in Industry 2325, Men's and Boys' Cloth Hats; and millinery braid and trimming in Industry 2396, Trimmings and Art Goods. Establishments producing millinery primarily for direct sale to household consumers through a retail store on the premises of the establishment are classified in Retail Trade.	20.2	99	98	20.9	99	98
236	Children's outerwear.....	77.5	94	83	48.2	(NA)	(NA)
2361	Children's Dresses (Children's and Infants' Dresses)..... Establishments primarily engaged in manufacturing children's and infants' dresses cut and sewed from purchased woven or knit fabric. Other products included in this industry are: children's blouses, blousesettes, waists, and shirts. In addition, establishments primarily engaged in manufacturing these garments in teen-age girls' and girls' sizes are also included in this industry. Knitting mills primarily engaged in manufacturing dresses are classified in Industry 2253, Knit Outerwear Mills.	32.5	95	93	22.5	93	91

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent) Special- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>	All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent) Special- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
23	APPAREL AND RELATED PRODUCTS—Continued						
236	Children's outerwear--Continued						
2363	Children's Coats (Children's and Infants' Coats)..... Establishments primarily engaged in manufacturing children's and in- fants' coats, coat-and-legging sets, and snow suits cut and sewed from purchased woven or knit fabric. Also included in this industry are es- tablishments primarily engaged in manufacturing these garments in teen- age girls' and girls' sizes. Knitting mills primarily engaged in manu- facturing outerwear are classified in Industry 2253, Knit Outerwear Mills.	14.4	91	81	11.0	91	87
2369	Children's Outerwear, N.E.C. (Children's and Infants' Outerwear, N.E.C.)... Establishments primarily engaged in manufacturing children's and in- fants' outerwear not elsewhere classified, such as house coats, mid- dies, slacks, beachwear, rompers, sun suits, play suits, bathrobes, and headwear cut and sewed from purchased woven or knit fabric. Also included in this industry are establishments primarily engaged in manu- facturing these garments (except millinery) in teen-age girls' and girls' sizes. Knitting mills primarily engaged in manufacturing outer- wear are classified in Industry 2253, Knit Outerwear Mills.	30.6	78	62	14.8	(NA)	(NA)
237	Fur goods.....	10.0	99	100	16.2	100	100
2371	Fur Goods..... Establishments primarily engaged in manufacturing fur coats; and other garments, accessories, and trimmings made of fur. Establishments pri- marily engaged in manufacturing sheep-lined clothing are classified in Industry 2386, Leather and Sheep-Lined Clothing, and those engaged in the dyeing and dressing of furs in Industry 3992, Furs; Dressed and Dyed. Establishments primarily engaged in making and reconditioning fur garments to individual order of the household consumer are classi- fied in Retail Trade.	10.0	99	100	16.2	100	100
238	Miscellaneous apparel.....	64.3	92	86	57.8	89	47
2381	Fabric Dress Gloves (Dress and Semidress Gloves and Mittens, Fabric, Fabric and Leather combined)..... Establishments primarily engaged in manufacturing dress and semidress gloves and mittens, cut and sewed from purchased woven or knit fabric, or these materials combined with leather. Knitting mills primarily engaged in manufacturing gloves and mittens are classified in Industry 2255, Knit Glove Mills; establishments primarily engaged in manufac- turing fabric work gloves in Industry 2382, Fabric Work Gloves; leather gloves in Group 315, Leather Gloves; and rubber gloves in Industry 3099, Rubber Industries, N.E.C.	4.5	94	72	5.6	89	47
2382	Fabric Work Gloves (Work Gloves and Mittens, Fabric, Fabric and Leather Combined)..... Establishments primarily engaged in manufacturing work gloves and mittens, cut and sewed from purchased woven or knit fabric, or these materials combined with leather. Knitting mills primarily engaged in manufacturing gloves and mittens are classified in Industry 2255, Knit Glove Mills. Establishments primarily engaged in manufacturing dress and semi-dress gloves and mittens are classified in Industry 2381, Fabric Dress Gloves; leather gloves in Group 315, Leather Gloves; rubber gloves in Industry 3099, Rubber Industries, N.E.C.; sport and athletic gloves in Industry 3949, Sporting and Athletic Goods.	10.1	95	93	10.9	94	96

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
23	APPAREL AND RELATED PRODUCTS—Continued						
238	Miscellaneous apparel—Continued						
2383	<u>Suspenders and Garters</u> (Suspenders, Garters, and Related Products)..... Establishments primarily engaged in manufacturing suspenders, arm bands, garters, hose supporters, and related products. Establishments primarily engaged in manufacturing corsets and allied garments are classified in Industry 2342, Corsets and Allied Garments.	.9	78	60	1.7	74	54
2384	<u>Robes and Dressing Gowns</u> ..... Establishments primarily engaged in manufacturing men's and women's bathrobes, lounging robes, dressing gowns, breakfast coats, brunch coats, housecoats, and lounging pajamas. Establishments primarily engaged in manufacturing negligees and bed jackets from purchased fabric are classified in Industry 2341, Women's and Children's Under- wear; and children's and infants' robes, dressing gowns, and kimonos from purchased fabric in Industry 2369, Children's Outerwear, N.E.C.	11.0	93	84	10.9	89	82
2385	<u>Waterproof Outer Garments</u> (Raincoats and Other Waterproof Outer Garments).. Establishments primarily engaged in manufacturing raincoats from pur- chased rubberized fabrics and other waterproof and water repellent fabrics, and other waterproof outer garments made from such material as pliofilm and cellophane. Establishments primarily engaged in manufacturing waterproof outer garments from plastic, including baby pants, aprons, bibs, and bathing and shower caps, are also included in Industry 2385. Establishments primarily engaged in manufacturing oiled-fabric work garments are classified in Industry 2329, Men's and Boys' Clothing, N.E.C., and those manufacturing vulcanized rubber garments and garments made from rubberized fabrics produced in the same establishment are classified in Industry 3099, Rubber Industries, N.E.C.	12.9	89	81	8.6	85	73
2386	<u>Leather and Sheep-Lined Clothing</u> ..... Establishments primarily engaged in manufacturing leather and sheep- lined garments. Establishments primarily engaged in manufacturing leather gloves and mittens are classified in Group 315, Leather Gloves, and fur garments in Industry 2371, Fur Goods.	5.4	85	80	4.2	79	80
2387	<u>Belts</u> ..... Establishments primarily engaged in manufacturing men's and women's apparel belts, regardless of material.	12.6	92	94	9.2	90	95
2388	<u>Handkerchiefs</u> ..... Establishments primarily engaged in manufacturing handkerchiefs, except embroidered. Establishments primarily engaged in manufacturing Schiffli-machine embroidered handkerchiefs are classified in Industry 2397, Schiffli-Machine Embroideries; and embroidered handkerchiefs, except Schiffli-Machine, in Industry 2398, Embroideries, Except Schiffli.	3.5	98	98	4.6	98	95
2389	<u>Apparel, N.E.C.</u> ..... Establishments primarily engaged in manufacturing apparel, n.e.c., such as academic caps and gowns, vestments, and theatrical costumes.	3.5	90	91	2.2	96	86

See footnotes at end of table.



## APPENDIX A

App. A-23

Code	Industry title and description	1954			1947		
		All employ- ees <sup>1</sup>  (1,000)	Industry ratio (percent)		All employ- ees <sup>1</sup>  (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
23	APPAREL AND RELATED PRODUCTS--Continued						
239	Fabricated textiles, n.e.c.....	134.6	94	77	126.7	(NA)	(NA)
2391	Curtains and Draperies..... Establishments primarily engaged in manufacturing curtains and draperies from purchased fabric. Establishments primarily engaged in manufacturing window curtains and draperies from plastics or fiber glass fabrics are also included in this industry. Establishments primarily engaged in manufacturing lace curtains and draperies are classified in Industry 2292, Lace Goods; shower-bath curtains in Industry 2392, Housefurnishings, N.E.C.; and paper draperies in In- dustry 2699, Converted Paper Products, N.E.C.	14.0	94	89	8.0	97	90
2392	Housefurnishings, N.E.C. (Housefurnishings, Except Curtains and Draperies). Establishments primarily engaged in manufacturing housefurnishings from purchased fabric. Important products of this industry include sheets, pillowcases, napkins, table cloths, comforters, blankets, bedspreads, pillows, laundry bags, mops and dusters, and slip covers. Other products included in this industry are chair covers; cushions (except spring, foam rubber, and carpet); garment bags, except paper; mattress protectors, except rubber; quilts; shower-bath curtains; towels and wash cloths. Establishments primarily engaged in knitting fabrics and manufacturing knit towels and wash cloths are classified in Industry 2259, Knitting Mills, N.E.C. Establishments primarily producing the following items are classified elsewhere: lace bedspreads and table covers in In- dustry 2292, Lace Goods; spring cushions in Industry 2515, Mattresses and Bedsprings; paper wardrobe and garment bags in Industry 2661, Paper Bags; rubber mattress protectors and foam rubber pillows in Industry 3099, Rubber Industries, N.E.C.; electric bed coverings (including blankets, sheets, and comforters) in Industry 3621, Electrical Appliances; and curtains and draperies in Industry 2391, Curtains and Draperies.	36.2	91	1259	39.9	93	1287
2393	Textile Bags..... Establishments primarily engaged in manufacturing cotton, burlap, canvas, and other textile bags from purchased fabric. Establishments primarily engaged in manufacturing textile laundry and wardrobe bags are classified in Industry 2392, Housefurnishings, N.E.C. Establish- ments primarily engaged in reconditioning textile bags in 1954 are ex- cluded from manufacturing but reconditioning activities of manufac- turing plants are included.	12.1	84	85	13.9	93	98
2394	Canvas Products..... Establishments primarily engaged in manufacturing awnings, tents, sails, canvas covers, tarpaulins, and canopies from purchased canvas. Other canvas products included in this industry are industrial aprons and painters' drop cloths. Establishments primarily engaged in manufac- turing canvas bags are classified in Industry 2393, Textile Bags; rubber-soled canvas shoes, in Industry 3021, Rubber Footwear; and canvas boots, in Industry 3141, Footwear, Except Rubber.	13.5	89	86	10.6	91	93

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
23	APPAREL AND RELATED PRODUCTS--Continued						
239	Fabricated textiles, n.e.c.--Continued						
2395	<u>Tucking, Pleating and Stitching</u> (Pleating, Stitching, and Tucking for the Trade)..... Establishments primarily engaged in pleating, stitching, and tucking for the trade. Other services for the trade performed by establishments in this industry include appliqueing, buttonhole making, hem-stitching, ruffling, scalloping, and shirring. Establishments primarily engaged in performing similar services for individuals are classified in Service Industries and are excluded from the Census of Manufactures. Establishments primarily engaged in manufacturing trimmings and art needlework are classified in Industry 2396, Trimmings and Art Goods, Schiffli-machine embroideries in Industry 2397, Schiffli-Machine Embroideries and embroideries, except Schiffli-machine, in Industry 2398, Embroideries, Except Schiffli.	6.5	(11)	(11)	5.9	(11)	(11)
2396	<u>Trimmings and Art Goods</u> (Trimmings, Stamped Art Goods, and Art Needlework). Establishments primarily engaged in manufacturing trimmings for millinery and other uses, stamped art goods, and art needlework. Other products included in this industry are: bias binding; automobile and furniture trimmings; and women's and children's apparel findings. Establishments primarily engaged in manufacturing narrow fabric bindings, ribbons, and tapes are classified in Industry 2241, Narrow Fabric Mills; men's hat linings and other hat trimmings in Industry 2326, Hat and Cap Materials.	17.8	97	83	14.5	94	95
2397	<u>Schiffli-Machine Embroideries</u> ..... Establishments primarily engaged in manufacturing Schiffli-machine embroideries and burnt-out laces.	5.7	98	99	5.7	98	96
2398	<u>Embroideries, Except Schiffli</u> (Embroideries, Except Schiffli-Machine)..... Establishments primarily engaged in manufacturing Swiss loom and other machine-made or hand-made embroideries, such as machine-made crocheted embroideries, and Bonnaz and Cornely products. Establishments primarily engaged in manufacturing Schiffli-machine embroideries are classified in Industry 2397, Schiffli-Machine Embroideries; hand-made crochet ware are classified in Industry 2399, Textile Products, N.E.C.	10.8	98	96	9.8	97	96
2399	<u>Textile Products, N.E.C.</u> ..... Establishments primarily engaged in manufacturing fabricated textile products, n.e.c., such as automobile seat covers, banners, flags, and pennants from purchased fabric. Establishments primarily engaged in the sponging, shrinking, burling or mending of cloth for the trade or in employing home workers for hand-knitting or hand-weaving of textile products are also included in this industry. Other textile products included in this industry are: textile badges and insignia; black-board erasers; diapers; hand-made crochet-ware; powder puffs; hand-woven rugs; saddle cloths; and sleeping bags. Establishments primarily engaged in manufacturing machine-made crochet ware are classified in Industry 2398, Embroideries, Except Schiffli.	18.0	87	77	18.3	88	87

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees <sup>1</sup>  (1,000)	Industry ratio (percent)		All employ- ees <sup>1</sup>  (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
24	LUMBER AND WOOD PRODUCTS, EXCEPT FURNITURE						
	This major group includes logging camps engaged in cutting timber and pulpwood, sawmills, veneer mills, lath mills, shingle mills, cooperage-stock mills, planing mills, and plywood mills engaged in producing lumber and wood basic materials; and establishments engaged in manufacturing finished articles made entirely or mainly of wood. Certain types of establishments producing wood products are classified elsewhere. For example, furniture and office and store fixtures are classified in Major Group 25, Furniture and Fixtures; pianos, musical instruments, toys and playground equipment, and caskets and coffins in Major Group 39; Miscellaneous Manufactures. Additional wood products classified outside of this major group are specified in the description of Industry 2499 below. Woodworking in connection with construction, in the nature of re-conditioning and repair, or performed to individual order, is classified in nonmanufacturing industries.						
241	Logging camps and contractors.....	75.5	98	89	(NA)	(NA)	(NA)
2411	<u>Logging Camps and Logging Contractors</u> .....	75.5	98	89	(NA)	(NA)	(NA)
	Logging camps and logging contractors engaged in cutting timber and in producing logs, bolts, crotches, burls, stumps, pulpwood, poles, posts, hewn ties, mine timbers, forest-cut fuel wood, wood for chemical distillation, hewn or rough shaped lasts, shuttles, and similar blocks or blanks, and other rough, hewn or riven primary forest or wood raw materials. Independent contractors engaged in estimating, driving, booming, towing, or trucking timber, but who perform no cutting operations, are classified in nonmanufacturing industries. Logging and woods operations conducted in combination with sawmills, pulp mills, or other converting establishments, and not separately reported, are classified in their respective industry groups: namely, with sawmills and planing mills in Industry 2421, Sawmills and Planing Mills, veneer mills in Industry 2422, Veneer Mills, pulp mills in Industry 2611, Pulp Mills, and with charcoal and wood distillation plants in Industries 2861, Hardwood Distillation, and 2862, Softwood Distillation. Establishments primarily engaged in the collection of bark, sap, gum and other forest byproducts are classified in nonmanufacturing industries.						
242	Lumber and timber basic products.....	341.4	96	81	409.8	(NA)	(NA)
2421	<u>Sawmills and Planing Mills</u> (Full Standard Industrial Classification Title: Sawmills and Planing Mills, General).....	321.2	97	81	383.4	(NA)	(NA)
	Establishments primarily engaged in sawing rough lumber and timbers from logs and bolts, or resawing cants, flitches, or lumber into smaller dimensions; planing mills combined with sawmills; and separately operated planing mills which are engaged in producing surfaced lumber and standard workings or patterns of lumber. Industry 2421 also includes establishments primarily engaged in sawing lath, railroad ties, and box shooks from logs or bolts, and establishments primarily engaged in kiln-drying of lumber. Establishments primarily engaged in manufacturing box shooks or boxes from purchased lumber are classified in Industry 2444 Wooden Boxes, (Except Cigar Boxes), and sash, doors, window and door frames, and other fabricated millwork from purchased lumber in Industry 2431, Millwork Plants. Logging camps combined with sawmills, when not separately reported, are included in Industry 2421, Sawmills and Planing Mills.						

See footnotes at end of table.



Code	Industry title and description	1954			1947		
		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
24	LUMBER AND WOOD PRODUCTS, EXCEPT FURNITURE—Continued						
242	Lumber and timber basic products—Continued						
2422	<u>Veneer Mills</u> .....	12.8	93	88	10.5	92	83
	Establishments primarily engaged in producing all types and grades of veneer including technical, fancy, flat, plywood, and container types. Establishments primarily engaged in the production of veneer which is used in the same establishment for the manufacture of other end products are classified in the end product industries, such as Industry 2432, Plywood Plants, Industry 2441, Fruit and Vegetable Baskets, Industry 2444, Wooden Boxes (Except Cigar Boxes), and Industry 2443, Cigar Boxes.						
2423	<u>Shingle Mills</u> .....	2.5	97	90	2.4	100	86
	Establishments primarily engaged in producing wood shingles, including shake operations.						
2424	<u>Cooperage Stock Mills</u> .....	13.4	96	93	12.3	96	92
	Establishments primarily engaged in producing cooperage stock, including staves, heading, and hoops for tight or slack cooperage, whether produced by sawing or splitting. Establishments primarily engaged in manufacturing barrels and other coopered products from stock produced in the same establishment are classified in Industry 2445, Cooperage.						
2425	<u>Excelsior Mills</u> .....	1.4	96	93	1.2	100	97
	Establishments primarily engaged in manufacturing excelsior, wood-wool, and excelsior pads and wrappers.						
243	Millwork, plywood, and prefabricated structural wood products.....	119.4	93	94	97.4	(NA)	(NA)
2431	<u>Millwork Plants</u> .....	68.7	90	91	59.8	90	92
	Establishments primarily engaged in manufacturing wood sash (including storm sash) windows, doors (including combination screen and storm doors), window and door frames, blinds, mantels, panel work, porch work, stairways, cabinet work to be built in, entrances, prefabricated tanks, and vats, and similar fabricated millwork from purchased lumber. Planing mills primarily engaged in producing millwork are included in this industry, but planing mills primarily producing standard workings or patterns of lumber (dimension stock, surfaced lumber, ceiling, partitions, siding, matched and shiplapped lumber, and flooring), are classified in Industry 2421, Sawmills and Planing Mills.						
2432	<u>Plywood Plants</u> .....	39.2	93	95	27.5	93	96
	Establishments primarily engaged in manufacturing commercial plywood, including technical and industrial grades, from veneer produced in the same establishment or from purchased veneer. Important products of this industry include hardwood plywood, interior and exterior types of softwood plywood, and nonwood face plywood and other plywood type products. Establishments producing plywood which is used in the same establishment in the manufacture of end products such as doors, boxes, and furniture are classified in Industry 2431, Millwork; Industry 2444, Wooden Boxes; Industry Group 251, Household Furniture, respectively.						
2433	<u>Prefabricated Wood Products (Prefabricated Wooden Buildings and Structural Members)</u> .....	11.5	99	95	10.1	93	96
	Establishments primarily engaged in manufacturing prefabricated wooden buildings, ready cut wood buildings or panels, or in producing laminated or fabricated trusses, arches and other structural members of lumber. Establishments primarily engaged in the installation rather than the manufacture of prefabricated building and equipment are excluded from the Census of Manufactures and are classified in Construction Industries.						

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		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
24	LUMBER AND WOOD PRODUCTS, EXCEPT FURNITURE—Continued						
244	Wooden containers.....	52.3	94	88	69.1	(NA)	(NA)
2441	<u>Fruit and Vegetable Baskets</u> .....	6.7	91	88	9.1	91	88
	Establishments primarily engaged in manufacturing till baskets, berry cups, climax baskets, round stave baskets, vegetable hampers, and splint or market baskets made primarily of veneer and splint for shipping and marketing fruits and vegetables. Establishments primarily engaged in manufacturing rattan and willow ware baskets other than fruit and vegetable baskets are classified in Industry 2442, Rattan and Willow Ware.						
2442	<u>Rattan and Willow Ware</u> (Rattan and Willow Ware, Except Furniture and Fruit and Vegetable Baskets).....	1.3	91	93	1.1	89	93
	Establishments primarily engaged in manufacturing articles of rattan, reed, splint, veneer, and willow, such as laundry hampers, clothes baskets, market baskets (except fruit and vegetable baskets--Industry 2441, Fruit and Vegetable Baskets), and small articles such as trays, coasters, table pads, and willow bottle and demijohn covers. Establishments primarily engaged in manufacturing reed and rattan furniture are classified in Industry 2519, Household Furniture, N.E.C.						
2443	<u>Cigar Boxes</u> .....	1.1	97	94	1.9	100	85
	Establishments primarily engaged in manufacturing cigar boxes of wood, or partly of wood, in which cigars are packed for sale. Establishments primarily engaged in manufacturing paper cigar boxes are classified in Industry 2671, Paperboard Boxes.						
2444	<u>Wooden Boxes</u> (Wooden Boxes, Except Cigar Boxes).....	39.5	93	85	47.8	96	85
	Establishments primarily engaged in manufacturing wooden boxes (nailed or wirebound, plain or fabric-covered), crates, cases, wooden shipping drums, and carrier trays. Establishments primarily engaged in manufacturing box shook and wooden trunk slats from purchased lumber are also included in this industry, but establishments primarily engaged in manufacturing box shook from logs or bolts are classified in Industry 2421, Sawmills and Planing Mills. Establishments primarily engaged in manufacturing fruit and vegetable baskets are classified in Industry 2441, Fruit and Vegetable Baskets, cigar boxes in Industry 2443, Cigar Boxes; and wooden outer burial boxes in Industry 3988, Morticians' Goods. Establishments primarily engaged in salvaging or reconditioning wooden boxes are excluded from manufacturing and classified in Trade Industries.						
2445	<u>Cooperage</u> .....	13.7	97	99	9.2	96	97
	Establishments primarily engaged in manufacturing barrels, kegs, tubs, hogsheads, pails, and other containers made of staves, except fruit and vegetable baskets (Industry 2441). Establishments primarily engaged in recoopering barrels and kegs are also included in Industry 2445, but establishments primarily engaged in manufacturing cooperage stock are classified in Industry 2424, Cooperage Stock Mills. Establishments primarily engaged in manufacturing tobacco hogsheads are classified in Industry 2444, Wooden Boxes.						
249	Miscellaneous wood products.....	57.4	93	92	65.5	(NA)	(NA)
2491	<u>Wood Preserving</u> .....	12.1	97	99	16.2	(D)	(D)
	Establishments primarily engaged in treating wood (sawed or planed in other establishments) with creosote or other preservatives to prevent decay and to protect against fire and insects. Establishments primarily engaged in manufacturing wood products which they may also treat with preservatives are not included in this industry.						

See footnotes at end of table.

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		All employ- ees <sup>1</sup>  (1,000)	Industry ratio (percent)		All employ- ees <sup>1</sup>  (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
25	FURNITURE AND FIXTURES—Continued						
251	Household furniture.....	243.9	96	95	228.4	(NA)	(NA)
2511	<u>Wood Furniture, Not Upholstered</u> (Wood Household Furniture, Except Upholstered)..... Establishments primarily engaged in manufacturing wood household furniture commonly used in dwellings. This industry also includes wooden cases and cabinets for radios and sewing machines, kitchen cabinets, camp furniture, nursery furniture, headboards for hollywood beds, and smoking stands. Establishments primarily engaged in manufacturing upholstered furniture or wood frames for upholstered furniture are classified in Industry 2512, Household Furniture, Upholstered, and reed and rattan furniture in Industry 2519, Household Furniture, N.E.C. Plants primarily engaged in renovating or re-finishing furniture and plants selling household furniture to household consumers through a retail store on the manufacturing premises are included in Trade Industries.	124.9	94	93	132.1	94	94
2512	<u>Household Furniture, Upholstered</u> (Wood household Furniture, Upholstered).. Establishments primarily engaged in manufacturing upholstered furniture on wood frames, or manufacturing wood frames for upholstered furniture. Establishments primarily engaged in manufacturing dual purpose sleep furniture such as studio couches, convertible sofas, jackknife sofa beds, and chair beds, are classified in Industry 2512, regardless of the materials used in the frame. Shops primarily engaged in reupholstering furniture, or upholstering frames to individual order are classified in Trade Industries.	56.0	94	85	44.8	92	83
2514	<u>Metal House Furniture</u> (Metal Household Furniture)..... Establishments primarily engaged in manufacturing metal household furniture of a type commonly used in dwellings, whether padded, upholstered, or plain. Establishments primarily engaged in manufacturing dual purpose furniture, such as studio couches, sofa beds, and chair-beds are classified in Industry 2512, Household Furniture, Upholstered, regardless of the materials used in the frame.	29.6	87	83	19.7	83	73
2515	<u>Mattresses and Bedsprings</u> ..... Establishments primarily engaged in manufacturing mattresses (including foam-rubber and box-spring mattresses); assembled wire springs (fabric, coil, or box) for use on beds, couches, and cots; and spring cushions. Establishments primarily engaged in manufacturing individual wire springs are classified in Industry 3489; Wirework, N.E.C., padding and upholstery filling in Industry 2293, Padding and Upholstery Filling; quilted mattress protectors in Industry 2392, Housefurnishings, N.E.C.; and latex foam rubber mattress cores in Industry 3099, Rubber Industries, N.E.C. Establishments primarily engaged in repairing, renovating, etc., mattresses and bedsprings are classified in Service Industries.	32.1	77	91	30.3	76	93
2519	<u>Household Furniture, N.E.C.</u> ..... Establishments primarily engaged in manufacturing reed, rattan, fiber, willow, and other wicker furniture, whether padded or plain; and those manufacturing other household furniture (except wood and metal), such as plastic radio, phonograph, and TV cabinets, and wood framed paper-board storage cabinets and wardrobes.	1.3	86	59	1.7	83	71
252	Office furniture.....	21.7	84	87	20.8	(NA)	(NA)
2521	<u>Wood Office Furniture</u> ..... Establishments primarily engaged in manufacturing wood office furniture, whether padded, upholstered, or plain.	5.5	86	86	6.5	92	80

See footnotes at end of table.

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			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
25	FURNITURE AND FIXTURES—Continued						
252	Office furniture--Continued						
2522	<u>Metal Office Furniture</u> ..... Establishments primarily engaged in manufacturing metal office furniture whether padded, upholstered, or plain. Establishments primarily engaged in manufacturing safes and vaults are classified in Industry 3492, Safes and Vaults.	16.1	84	87	14.3	89	92
253	Public-building and professional furniture.....	19.6	84	81	15.4	(NA)	(NA)
2531	<u>Public-Building and Related Furniture</u> ..... Establishments primarily engaged in manufacturing furniture for schools, theaters, assembly halls, churches, and libraries, and in manufacturing seats for public conveyances. Establishments primarily engaged in manufacturing stone furniture are classified in Industry 3281, Cut Stone and Stone Products, and concrete furniture in Industry 3271, Concrete Products.	14.0	83	86	10.2	68	80
2532	<u>Professional Furniture</u> ..... Establishments primarily engaged in manufacturing furniture especially designed for laboratory, hospital, and other professional uses, such as laboratory work tables, operating tables, and hospital beds.	5.5	81	68	5.2	62	67
254	Partitions and fixtures.....	33.1	88	87	27.8	88	89
2541	<u>Partitions and Fixtures (Partitions, Shelving, Lockers, and Office and Store Fixtures)</u> ..... Establishments primarily engaged in manufacturing from wood, metal, or other materials, prefabricated partitions, shelving, cabinets, show and display cases, office and store fixtures, and related fabricated products including bar fixtures, telephone booths, butchers' fixtures, lockers, display racks and stands, and store and lunch-room window-backs. Establishments primarily engaged in manufacturing refrigerated cabinets, show cases, and display cases, are classified in Industry 3585, Refrigeration Machinery, and safes and vaults in Industry 3492, Safes and Vaults.	33.1	88	87	27.8	88	89
256	Screens, shades and blinds.....	18.2	86	84	19.7	(NA)	(NA)
2561	<u>Window and Door Screens (Window and Door Screens and Weatherstrip)</u> ..... Establishments primarily engaged in manufacturing window and door screens and weatherstrip, regardless of the materials used. Establishments primarily engaged in manufacturing wire screening are classified in Industry 3489, Wirework, N.E.C. Storm (and combination screen and storm) sash and doors are classified in Industry 2431, Millwork Plants, or in Industry 3442, Metal Doors, Sash, and Trim, depending on the principal material used in their manufacture.	4.4	73	64	4.2	65	61
2562	<u>Window Shades</u> ..... Establishments primarily engaged in manufacturing complete window shades, window-shade rollers and fittings, and curtain rods and fixtures, regardless of the materials used. Establishments primarily engaged in manufacturing metal awnings and canopies are classified in Industry 3444, Sheet-Metal Work.	4.4	85	78	5.7	73	79
2563	<u>Venetian Blinds</u> ..... Establishments primarily engaged in manufacturing venetian blinds, regardless of materials used. Establishments primarily engaged in manufacturing porch shades (except canvas shades and awnings classified in Industry 2394, Canvas Products) are also included in this industry.	9.4	85	93	9.7	96	92

See footnotes at end of table.

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		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
25	FURNITURE AND FIXTURES—Continued						
259	Miscellaneous furniture and fixtures.....	4.2	75	74	4.2	(NA)	(NA)
2591	<u>Restaurant Furniture</u> .....	3.4	72	78	3.4	87	69
	Establishments primarily engaged in manufacturing furniture especially designed for use in restaurants.						
2599	<u>Furniture and Fixtures, N.E.C.</u> .....	.8	83	61	.9	91	56
	Establishments primarily engaged in manufacturing furniture and fixtures which are not classified in any of the several furniture industries.						
26	PULP, PAPER AND PRODUCTS						
	This major group includes the manufacture of pulp primarily from wood, and from rags and other fibers; the conversion of these pulps into paper or board; and the manufacture of paper and paperboard into converted products such as coated paper, paper bags, paper boxes, and envelopes. Certain types of converted paper products are classified in other major groups, such as abrasive paper in Industry 3291, Abrasive Products, carbon paper in Industry 3955, Carbon Paper and Inked Ribbons and photosensitized and blueprint paper in Industry 3861, Photographic Equipment.						
261	Pulp, paper, and paperboard.....	216.3	99	100	197.9	99	100
2611	<u>Pulp Mills</u> .....	57.7	99	100	50.3	99	100
	Establishments primarily engaged in the manufacture of pulp made from pulpwood (including slabs, chips and mill wastes), and other fibrous materials such as linters, waste paper, straw, and rags.						
2612	<u>Paper and Paperboard Mills (Paper and Paperboard Mills, Except Building-Paper and Building-Board Mills)</u> .....	142.2	99	100	134.2	6100	6100
	Establishments primarily engaged in manufacturing paper and paperboard, except building board and building paper, from woodpulp and other fibers. Industry 2612 also includes establishments reducing waste paper, linters, straw, and other non-wood fibers to pulp as part of a continuous process producing paper and paperboard.						
2613	<u>Building Paper and Board Mills (Building-Paper and Building-Board Mills)</u> ...	16.4	98	97	13.4		
	Establishments primarily engaged in manufacturing building paper and building board, from woodpulp and other fibrous materials. Industry 2613 also includes establishments reducing waste paper, linters, straw, and other non-wood fibers to pulp as part of a continuous process producing building paper and building board.						
264	Paper coating and glazing.....	27.7	85	86	22.3	87	92
2641	<u>Paper Coating and Glazing</u> .....	27.7	85	86	22.3	87	92
	Establishments primarily engaged in manufacturing coated and glazed paper from purchased paper. Important products of this industry include coated-book, waxed, wax-laminated, and gummed paper (including gummed-labels, and paper and cloth tape), waterproof wrapping paper, fly paper, cloth-lined paper, and pressure sensitive tapes (except surgical) with paper, cloth, or plastic backing. Establishments primarily engaged in manufacturing photographic and blueprint paper are classified in Industry 3861, Photographic Equipment; carbon paper, in Industry 3955, Carbon Paper and Inked Ribbons; and rubber tapes, including friction in Industry 3099, Rubber Industries, N.E.C.						

See footnotes at end of table.



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		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
26	PULP, PAPER AND PRODUCTS—Continued						
265	Envelopes.....	15.9	96	92	13.8	92	95
2651	<u>Envelopes</u> ..... Establishments primarily engaged in manufacturing envelopes of any description from purchased paper and other materials. Establishments primarily engaged in manufacturing papeteries (boxed stationery) are classified in Industry 2699, Paper and Board Products, N.E.C.	15.9	96	92	13.8	92	95
266	Paper bags.....	33.3	91	88	22.2	96	86
2661	<u>Paper Bags</u> ..... Establishments primarily engaged in manufacturing paper bags from purchased paper and similar materials. Important products of this industry include kraft paper bags for groceries, paper shipping or heavy duty paper sacks and multiwall bags for cement, flour, coal, etc., and glassine bags, cellophane bags, and miscellaneous merchandise bags. Establishments primarily engaged in manufacturing cotton or other textile bags from purchased fabrics are classified in Industry 2393, Textile Bags.	33.3	91	88	22.2	96	86
267	Paperboard containers and boxes.....	145.1	96	98	119.0	97	98
2671	<u>Paperboard Boxes</u> (Paperboard Boxes, Folded, Set-Up and Corrugated)..... Establishments primarily engaged in manufacturing paperboard containers or boxes from purchased paperboard or fiber stock. Important products of this industry include folding boxes; setup boxes, corrugated and solid fiberboard boxes; decorated, lithographed, lacquered, and fancy covered paperboard boxes; cigarette and confectionery boxes, and vulcanized fiber boxes. Establishments primarily engaged in manufacturing sanitary food containers are classified in Industry 2699, Paper and Board Products, N.E.C.	133.0	96	98	109.7	97	98
2674	<u>Fiber Cans, Tubes, and Drums</u> (Fiber Cans, Tubes, Drums, and Similar Products)..... Establishments primarily engaged in manufacturing from purchased materials, fiber cans, cones, cores, mailing cases, ribbon-blocks, spools, tubes, drums, and similar products with or without metal ends. These products may be manufactured from purchased paperboard or vulcanized fiber.	12.1	97	87	9.2	97	93
269	Pulp goods and miscellaneous paper and board products.....	92.0	91	89	78.9	(NA)	(NA)
2691	<u>Die-Cut Paper and Board</u> (Die-Cut Paper and Paperboard; and Cardboard)..... Establishments primarily engaged in die-cutting purchased paper and paperboard, and in manufacturing cardboard by laminating, lining, and surface-coating paperboard. Important products of this industry include paper bottle-caps and tops; index, Jacquard, library and other cut cards; cut-outs; photograph folders, mats, and mounts; stencil cards for addressing machines; cardboard panels and pasted chipboard and newsboard; and tabulating and time recording cards. Establishments primarily engaged in laminating building board or building paper from purchased paper or board are classified in Industry 2699, Paper and Board Products, N.E.C.	12.3	88	82	9.3	(NA)	(NA)
2693	<u>Wallpaper</u> ..... Establishments primarily engaged in designing, printing and embossing paper for interior walls and ceilings. The paper stock used by this industry is called "hanging paper" and is produced by paper mills classified in Industry 2612, Paper and Paperboard Mills. All kinds of wallpaper including machine, screen, and handprinted are included in Industry 2693, Wallpaper.	3.6	99	98	5.5	98	100

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
26	PULP, PAPER AND PRODUCTS—Continued						
269	Pulp goods and miscellaneous paper and board products—Continued						
2694	<u>Pulp Goods, Pressed and Molded</u> .....	2.9	100	93	1.7	95	86
	Establishments primarily engaged in manufacturing, from purchased material, pressed or molded pulp goods, such as pulp plates and utensils, and papier-mache articles other than statuary and art goods (Industry 3298, Statuary and Art Goods). Establishments primarily engaged in stamping plates and utensils from paper are classified in Industry 2699, Paper and Board Products, N.E.C.						
2699	<u>Paper and Board Products, N.E.C.</u> .....	73.2	90	89	62.4	86	86
	Establishments primarily engaged in manufacturing from purchased paper, miscellaneous converted paper products, n.e.c., such as stationery, papeteries, crepe paper and crepe paper products, paper napkins, doilies, and towels, playing cards, drinking straws, sanitary food containers, printed and unprinted paper patterns, eggcase fillers, laminated building boards and papers, cups, plates, utensils, toilet paper, confetti, and paper novelties.						
27	PRINTING AND PUBLISHING INDUSTRIES						
	This major group includes establishments engaged in publishing, printing, (letterpress, lithographing gravure, screen, etc.), publishing, and printing; bookbinding, paper ruling, and manufacturing blankbooks and looseleaf devices; and those performing services for the printing trades such as typesetting, photo engraving, and electrotyping. This group includes all publishers regardless of whether or not they do their own printing. Establishments primarily engaged in printing on textiles are classified in Major Group 22 Textile Mill Products. News syndicates are classified in Service Industries.						
271	Newspapers.....	281.8	95	100	234.4	94	100
2711	<u>Newspapers</u> .....	281.8	95	100	234.4	94	100
	Establishments engaged in publishing newspapers, or in publishing and printing newspapers. These establishments carry on the various operations necessary for issuing newspapers, including the gathering of news, and the preparation of editorials, and advertisements, but may or may not perform their own printing. Job printing is frequently carried on by establishments engaged in publishing and printing newspapers, but even though the job printing may be of major importance, such establishments are included in this industry.						
	Establishments not engaged in publishing newspapers but which print or lithograph newspapers for publishers, are classified in Industry 2751, Commercial Printing or Industry 2761, Lithographing. Establishments primarily engaged in publishing shopping news are classified in Industry 2741, Miscellaneous Publishing. News Syndicates are classified in Service Industries.						
272	Periodicals.....	62.4	95	97	69.0	94	98
2721	<u>Periodicals</u> .....	62.4	95	97	69.0	94	98
	Establishments primarily engaged in publishing periodicals, or in preparing, publishing, and printing periodicals. These establishments carry on the various operations necessary for issuing periodicals, but may or may not perform their own printing. Establishments not engaged in publishing periodicals, but which print or lithograph periodicals for publishers, are classified in Industry 2751, Commercial Printing, or 2761, Lithographing, depending on the primary printing process employed.						

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
27	PRINTING AND PUBLISHING INDUSTRIES—Continued						
273	Books.....	57.4	89	80	52.0	(NA)	(NA)
2731	Books: Publishing and Printing (Books: Publishing, Publishing and Printing)..... Establishments primarily engaged in publishing only, or in publishing and printing books and pamphlets. Establishments primarily engaged in printing and binding (but not publishing) books and pamphlets are classified in Industry 2732, Book Printing. Establishments primarily engaged in binding books published or printed in the same establishment are classified in Industry 2731, but establishments primarily engaged in binding books printed elsewhere are classified in Industry 2781, Bookbinding. Industry 2731 also includes data on book publishing activities obtained from non profit organizations which operate separate book publishing establishments.	34.7	91	90	39.9	92	93
2732	Book Printing..... Establishments primarily engaged in printing only or in printing and binding books and pamphlets, but not engaged in publishing. Establishments primarily engaged in publishing, or in publishing and printing books and pamphlets are classified in Industry 2731, Books; Publishing and Printing. Establishments engaged in both printing and binding books, but primarily binding books printed elsewhere are classified in Industry 2781, Bookbinding. Establishments classified in Industry 2732 are identical in character to some establishments primarily engaged in commercial printing (Industry 2751) and in lithographing (Industry 2761). The distinction is that all the establishments classified in Industry 2732 derive the greater part of their revenue from printing books and pamphlets, while such operations are secondary activities for establishments classified in Industries 2751, Commercial Printing and 2761, Lithographing.	22.7	76	55	12.0	77	44
274	Miscellaneous Publishing.....	18.4	85	82	12.0	93	78
2741	Miscellaneous Publishing..... Establishments primarily engaged in publishing such products as maps, atlases, sheet music, directories, almanacs; catalogs; globe covers; racing forms; and shopping news or engaged in miscellaneous publishing activities, n.e.c., whether or not engaged in printing. Establishments primarily engaged in printing such products and not engaged in publishing are classified in Industry 2751, Commercial Printing, or 2761, Lithographing, depending on the primary printing process employed. Establishments primarily engaged in publishing greeting cards are classified in Industry 2771, Greeting Cards. Establishments primarily engaged in offering financial, credit, or other business services and which may publish directories as part of this service are not included in this industry but are classified in Service Industries.	18.4	85	82	12.0	93	78

See footnotes at end of table.



Code	Industry title and description:	1954			1947		
		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
27	PRINTING AND PUBLISHING INDUSTRIES—Continued						
275	Commercial printing.....	200.2	85	86	191.7	86	86
2751	<u>Commercial Printing</u> ..... Establishments primarily engaged in commercial or job printing. This industry includes general printing shops as well as shops specializing in printing newspapers and periodicals for others, and those which specialize in gravure, rotogravure, and rotary photogravure printing. Industry 2751 also includes establishments primarily engaged in making gravure plates for others and those which print by screen processes (except decalcomanias classified in Industry 2761, Lithographing, and textile printing in Industry 2261, Finishing Textiles, Except Wool). In addition to printing on paper, Industry 2751 includes establishments primarily engaged in printing on wood (e.g. pencils), on metal, plastics, etc. Letterpress, gravure, and screen process printing are the principal processes employed by establishments classified in Industry 2751. Establishments primarily engaged in printing books (without publishing) are classified in Industry 2732, Book Printing; greeting cards in Industry 2771, Greeting Cards; printing from lithographic plates in Industry 2761, Lithographing; and embossing on books in Industry 2789, Miscellaneous Bookbinding Work, but those establishments primarily engaged in embossing on paper are classified in Industry 2751, Commercial Printing.	200.2	85	86	191.7	86	86
276	Lithographing.....	77.7	82	79	52.4	77	77
2761	<u>Lithographing</u> ..... Establishments primarily engaged in preparing lithographic stones or metal lithographic plates, and in printing from such media. Establishments primarily engaged in making lithographic plates for others and those which print decalcomanias (by all processes) are also included in Industry 2761. The greater part of the work in this industry is performed on a job or custom basis, but in some cases lithographed calendars, business forms, maps, posters, decalcomanias, etc., are made for sale. Offset printing, photo-offset printing, and photolithographing are also included in this industry. Establishments primarily engaged in lithographing books and pamphlets (without publishing) are classified in Industry 2732, Book Printing, and greeting cards in Industry 2771, Greeting Cards.	77.7	82	79	52.4	77	77
277	Greeting cards.....	21.3	93	89	18.1	92	87
2771	<u>Greeting Cards</u> ..... Establishments primarily engaged in designing only, manufacturing only, or designing and manufacturing greeting cards for all occasions. These products may be printed, lithographed, etched, or otherwise processed.	21.3	93	89	18.1	92	87
278	Bookbinding and related industries.....	37.3	89	85	42.6	(NA)	(NA)
2781	<u>Bookbinding</u> ..... Establishments primarily engaged in edition, trade, job, and library bookbinding. Establishments primarily engaged in binding books printed elsewhere are classified in this industry, but those primarily binding books printed in the same establishment are classified in Group 273, Books.	17.2	91	86	22.2	84	87
2782	<u>Blankbooks and Paper Ruling</u> (Blankbook Making and Paper Ruling)..... Establishments primarily engaged in manufacturing blankbooks such as ledgers, account books, and composition books; receipt pads; check books; inventory and similar blankbooks; sales books; albums, and scrapbooks (including leather bound), and in ruling paper. Establishments primarily engaged in manufacturing loose-leaf notebooks and loose-leaf notebook forms are classified in Industry 2783, Loose-Leaf Binders and Devices.	8.6	76	66	8.8	85	66

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
27	PRINTING AND PUBLISHING INDUSTRIES—Continued						
278	Bookbinding and related industries—Continued						
2783	<u>Loose-Leaf Binders and Devices</u> (Library and Loose-Leaf Binder Manufacturing) Establishments primarily engaged in manufacturing loose-leaf devices, library binders, and loose-leaf forms and fillers, including loose-leaf notebooks.	8.2	74	82	8.1	75	83
2789	<u>Miscellaneous Bookbinding Work</u> (Miscellaneous Work Related to Bookbinding). Establishments primarily engaged in book or paper bronzing, gilding, and edging; map and sample mounting; beveling, deckling, embossing of books (except embossing on paper, classified in Industry 2751, Commercial Printing), gold stamping, indexing of books, and paper cutting (except die-cutting, Industry 2691, Die-Cut Paper and Board); and other services related to bookbinding.	3.3	84	83	3.4	87	79
279	Printing trades service industries.....	47.8	96	91	43.1	(NA)	(NA)
2791	<u>Typesetting</u> ..... Establishments primarily engaged in machine and hand typesetting for the trade, and in advertising typography.	14.6	94	87	11.5	94	87
2792	<u>Engraving and Plate Printing</u> ..... Establishments primarily engaged in engraving and etching steel and copper plates; in using these plates to print stationery, visiting and other cards, invitations, announcements, security certificates, maps, etc., and in making wood cuts for use in printing illustrations, posters, etc. Establishments primarily engaged in engraving on textile printing rollers and those engraving or etching on rubber printing plates are also classified in Industry 2792. Engraving for purposes other than printing is classified in Industry 3467, Engraving on Metal.	7.5	93	79	7.7	92	80
2793	<u>Photoengraving</u> ..... Establishments primarily engaged in preparing photoengraved plates (half-tones and line-cuts). These establishments do not, as a rule, print from the plates which they make, but prepare them for use by others.	17.7	95	93	16.7	96	95
2794	<u>Electrotyping and Stereotyping</u> ..... Establishments primarily engaged in preparing electrotype and stereotype plates. These establishments do not, as a rule, print from the plates which they make, but prepare them for use by others.	8.0	89	89	7.2	92	87
28	CHEMICALS AND PRODUCTS  This major group includes establishments producing basic chemicals, and establishments manufacturing products by predominantly chemical pro- cesses. Establishments classified in this major group manufacture three classes of products: (1) basic chemicals such as acids, alkalies, salts, and organic chemicals; (2) chemical products to be used in further manu- facture such as synthetic fibers, plastics materials, crude animal and vegetable oils, dry colors, and pigments; and (3) finished chemical prod- ucts to be used for ultimate consumption such as drugs, cosmetics, and soaps; or to be used as materials or supplies in other industries such as paints, fertilizers, and explosives. The mining of natural rock salt is classified in Mining Industries. Establishments primarily engaged in manu- facturing nonferrous metals and high percentage ferro-alloys are classified in Major Group 33, Primary Metal Industries, silicon carbide in Industry 3291, Abrasive Products, baking powder, other leavening compounds, and starches in Major Group 20, Food and Kindred Products, and embalming fluids and artists' colors in Major Group 39, Miscellaneous Manufactures. Estab- lishments primarily engaged in packaging, repackaging, and bottling of purchased chemical products are classified in Trade Industries.						

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
28	CHEMICALS AND PRODUCTS—Continued						
281	Industrial inorganic chemicals.....	121.3	89	83	62.5	(NA)	(NA)
2811	<u>Sulfuric Acid</u> ..... Establishments primarily engaged in producing sulfuric acid by the contact or chamber process.	3.8	78	66	3.1	( <sup>6</sup> )	( <sup>6</sup> )
2812	<u>Alkalies and Chlorine</u> ..... Establishments primarily engaged in manufacturing sodium hydroxide (caustic soda), potassium hydroxide (caustic potash), soda ash, potas- sium carbonate, sodium bicarbonate, sal soda and chlorine. Establish- ments primarily engaged in manufacturing ammonium compounds or alkali metals are classified in Industry 2819, Industrial Inorganic Chemicals, N.E.C., and plants primarily engaged in mining natural potassium, or sodium alkalies are classified in Mineral Industry 1474, Potash, Soda and Borate Minerals.	20.4	76	84	19.9	81	85
2819	<u>Inorganic Chemicals, N.E.C.</u> (Industrial Inorganic Chemicals, N.E.C.)..... Establishments primarily engaged in manufacturing industrial inorganic chemicals which are not elsewhere classified. Important products of this industry include inorganic acids such as boric, hydrochloric, hydrofluoric, nitric, and phosphoric; inorganic salts of sodium, potassium, aluminum, calcium, chromium, magnesium, mercury, nickel, silver, and tin; inorganic compounds such as alums, calcium carbide, sodium silicate, ammonium compounds, and anhydrous ammonia; and elemental bromine and iodine. Establishments primarily engaged in man- ufacturing inorganic paint pigments are classified in Industry 2852, Inorganic Color Pigments and medicinal grades of inorganic chemicals in Industry 2833, Medicinal Chemicals. Establishments primarily en- gaged in mining, milling or otherwise preparing natural potassium, boron or sodium compounds (other than common salt) are not classified in manufacturing industries but instead are included in Mineral In- dustry 1474, Potash, Soda and Borate Minerals.	97.0	87	78	39.5	( <sup>6</sup> )	( <sup>6</sup> )
282	Industrial organic chemicals.....	245.5	91	90	203.9	(NA)	(NA)
2821	<u>Cyclic (Coal-Tar) Crudes</u> ..... Establishments primarily engaged in manufacturing crudes from coal-tar. Such crudes include (1) light-oil products such as benzene and toluene; (2) coal-tar acids such as creosols and cresylic acid; and (3) products of medium and heavy oil such as creosote oil, naphthalene, anthracene, and their higher homologues, and tar. Other products manufactured from coal tar included in this industry are: xylene, solvent naphtha, road tar, and pitch of tar. Establishments primarily engaged in manu- facturing coal-tar crudes in byproduct coke ovens are classified in Industry 2932, Byproduct Coke Ovens, and petroleum refineries which produce such products in Industry 2911, Petroleum Refining.	1.9	82	72	2.0	85	78
2822	<u>Intermediates and Organic Colors</u> (Intermediates, Dyes, Color Lakes and Toners)..... Establishments primarily engaged in manufacturing cyclic intermediates, dyes, color lakes, and toners. Important products of this industry in- clude (1) derivatives of benzene, toluene, phenol, aniline, nitro- benzene and other cyclic intermediates; (2) classified and unclassified dyes such as azo and anthraquinone, and food, drug, and cosmetic dyes; (3) lakes and extended colors, toners, or full strength organic colors and reduced toners. Establishments primarily engaged in manufacturing inorganic color pigments are classified in Industry 2852, Inorganic Color Pigments; natural dyeing materials in Industry 2865, Natural Tanning and Dyeing Materials; and natural food colors in Industry 2095, Flavorings.	32.7	64	66	33.6	( <sup>6</sup> )	( <sup>6</sup> )

See footnotes at end of table.



Code	Industry title and description	1954			1947		
		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
28	CHEMICALS AND PRODUCTS—Continued						
282	Industrial organic chemicals—Continued						
2823	<u>Plastics Materials and Elastomers, Except Synthetic Rubber</u> ..... Establishments primarily engaged in manufacturing plastics materials in the form of sheets, rods, tubes, granules, powders, or liquids for use in further manufacturing. Important products of this industry include: (1) condensation plastics, such as alkyd, phenolic, and urea resins; (2) polymerization plastics, except fibers, such as ployvinyl alcohol, ester, halide, and copolymer resins; polyhexamethylene-diamine adipamide resins; (3) protein plastics such as casein, soybean, and coffee bean; (4) cellulose plastics, regenerated cellulose sheets, and vulcanized fiber; (5) carbohydrate plastics; and (6) synthetic elastomers such as plasticized ployvinyl alcohol, polyvinyl chloride, polyisobutylene elastomers and other similar products. Establishments primarily engaged in manufacturing rayon and other synthetic fibers are classified in Industry 2825, Synthetic Fibers; synthetic rubber in Industry 2824, Synthetic Rubber; artificial leather in Industry 2295, Coated Fabrics, Except Rubberized; and sensitized and nonsensitized photographic film in Industry 3861, Photographic Equipment. Establishments primarily engaged in manufacturing unsupported film from purchased resins are classified in Industry 3971, Plastics Products, N.E.C.	41.1	90	<sup>5</sup> 75	28.6	92	<sup>5</sup> 77
2824	<u>Synthetic Rubber</u> ..... Establishments primarily engaged in manufacturing synthetic rubber by polymerization or copolymerization. Important products of this industry include butadiene styrene type (GR-S and Buna S), butadiene-acrylonitrile type GR-N), and all other vulcanizable elastomers. An elastomer for the purpose of this classification is a rubber-like material which will stretch 150 percent or more and return with force to approximately its original shape and position. Establishments primarily engaged in manufacturing non vulcanizable elastomer materials are classified in Industry 2823, Plastics Materials and elastomers (except synthetic rubber), and synthetic organic rubber-processing chemicals (accelerators and anti-oxidants) are classified in Industry 2829, Industrial Organic Chemicals, N.E.C.	8.5	98	90	7.7	96	89
2825	<u>Synthetic Fibers</u> ..... Establishments primarily engaged in manufacturing rayon, nylon, and other synthetic fibers to be used as materials for further manufacturing. Important products of this industry include fibers of cellulose acetate, regenerated cellulose, polyvinyl ester polyvinylidene chloride, vinyl chloride, polymeric amide, and protein. Textile mills primarily engaged in throwing, spinning, and weaving rayon, nylon, or other synthetic fibers are classified in Major Group 22, Textile Mill Products and glass fiber, stock and roving, are classified in Industry 3229, Pressed and Blown Glassware, N.E.C.	61.1	96	99	69.7	97	98
2826	<u>Explosives</u> ..... Establishments primarily engaged in manufacturing explosives such as sporting powder, blasting powder, high explosives, nitrated carbohydrates, safety fuses, and blasting and detonating caps. Establishments primarily engaged in manufacturing ammunition for small arms are classified in Industry 1961, Small Arms Ammunition; and fireworks and pyrotechnics such as flashlight bombs, flares (all kinds) railroad torpedoes, and fuses (highway, marine and railroad) in Industry 3985, Fireworks and Pyrotechnics. Establishments primarily engaged in shooting wells and also engaged in manufacturing nitroglycerine are included in Mineral Industries.	32.5	98	91	10.4	87	99

See footnotes at end of table.

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		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
28	CHEMICALS AND PRODUCTS—Continued						
282	Industrial organic chemicals—Continued						
2829	Industrial Organic Chemicals, N.E.C.....	67.5	77	80	51.9	(6)	(6)
	Establishments primarily engaged in manufacturing industrial organic chemicals, n.e.c. Important products of this industry include:(1) noncyclic organic chemicals such as acetic, chloracetic, adipic, formic, oxalic and tartaric acids, and their metallic salts; chloral, formaldehyde and methylamine; (2) solvents such as amyl, butyl, and ethyl alcohols; methanol; ethylene glycol; anyl, butyl, and ethyl acetates; ethyl ether, ethylene glycol ether, and diethylene glycol ether; acetone, carbon disulfide, and carbon tetrachloride; (3) synthetic perfume and flavoring materials such as coumarin, methyl salicylate, saccharin, citral, citronellal, synthetic geraniol, ionone, terpeneol, and synthetic vanillin; (4) rubber chemicals such as accelerators and anti-oxidants; (5) plasticizers such as synthetic camphor, phthalates and tricresyl and triphenyl phosphates; (6) synthetic tanning materials; and (7) chemical-warfare gases. Establishments engaged in manufacturing organic medicinal chemicals are classified in Group 283, Drugs and Medicines, soap and glycerin in Industry 2841, Soap and Glycerin, essential oils in Industry 2892, Essential Oils; wood distillation products, naval stores and natural dyeing and tanning materials in Group 286, Gum and Wood Chemicals; and insecticides, fungicides, and other agricultural pesticidal preparations in Industry 2897, Insecticides and Fungicides. Distilleries engaged in manufacturing grain alcohol for beverage purposes are classified in Industry 2085, Distilled Liquor, Except Brandy.						
283	Drugs and medicines.....	92.1	94	94	81.5	(NA)	(NA)
2831	Biological Products.....	4.0	86	65	3.0	87	57
	Establishments primarily engaged in the production of viruses, serums, toxins, and analogous products such as allergenic extracts and normal serums and plasmas for human or veterinary use. Establishments primarily engaged in manufacturing bacteriological media are also included in this industry. Excluded are the activities of the American Red Cross, hospitals and other institutions which are important collectors of blood and producers of blood products.						
2833	Medicinal Chemicals, including Botanicals (Includes S.I.C. Industries 2832, Botanical Products, and 2833, Inorganic and Organic Medicinal Chemicals).	11.5	59	59	13.1	73	74
	Establishments primarily engaged in manufacturing bulk organic and inorganic medicinal chemicals and their derivatives as well as establishments engaged in grading, grinding and milling botanical drugs and herbs. Establishments primarily engaged in manufacturing endocrine products, manufacturing or isolating basic vitamins, isolating active medicinal principals such as alkaloids from botanical drugs and herbs and manufacturing agar-agar (except culture media) are also included in this industry. Establishments primarily engaged in manufacturing reagent and chemically pure grades (other than United States Pharmacopoeia or National Formulary) or inorganic and organic chemicals are classified in Industries 2819, Inorganic Chemicals, N.E.C., and 2829, Organic Chemicals, N.E.C., respectively.						

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
28*	CHEMICALS AND PRODUCTS—Continued						
283	Drugs and medicines—Continued						
2834	Pharmaceutical Preparations.....	76.6	91	94	65.4	91	98
	Establishments primarily engaged in fabricating drugs and medicines in pharmaceutical preparations such as ampules, tablets, capsules, ointments, solutions, and suspensions, for human and veterinary use, including vitamin preparations and Galenicals such as fluid extracts and tinctures. Products of this industry consist of two important lines: (a) pharmaceutical preparations promoted primarily to the dental, medical, or veterinary professions, and (b) pharmaceutical preparations promoted primarily to the public. Establishments compounding drugs and medicines and selling these "over the counter" are classified in Trade Industries and thus are excluded from the Census of Manufactures.						
284	Soap, glycerin, cleaning, polishing, and related products.....	46.2	87	64	44.9	(NA)	(NA)
2841	Soap and Glycerin.....	25.8	84	74	27.5	81	91
	Establishments primarily engaged in manufacturing soap in any form (including shampoos and shaving creams) and in manufacturing crude and refined glycerin. Establishments primarily engaged in manufacturing washing powders and compounds and not engaged in manufacturing soap (soap converters) are classified in Industry 2842, Cleaning and Polishing Products; shampoos and shaving creams from purchased soap, in Industry 2893, Toilet Preparations; and metal soap pads in Industry 3291, Abrasive Products.						
2842	Cleaning and Polishing Products.....	18.0	80	<sup>5</sup> 45	15.4	70	<sup>5</sup> 52
	Establishments primarily engaged in manufacturing cleansers, washing powders and washing compounds and which are not engaged in manufacturing soap. Establishments primarily engaged in manufacturing dry-cleaning preparations, metal, automobile, stove, shoe, and other polishes; paint and varnish removers; waxes, stains, finishes, and dressings for fabricated leather and other materials; burnishing inks, and related products are also included in this industry. Establishments primarily engaged in manufacturing soap are classified in Industry 2841, Soap and Glycerin; bluing, laundry soaps, water softeners and other chemical specialties in Industry 2899, Chemical Products, n.e.c., and metal soap pads in Industry 3291, Abrasive Products.						
2843	Sulfonated Oils and Assistants.....	2.4	74	78	2.0	77	76
	Establishments primarily engaged in producing sulfonated oils and fats and related products such as tanning assistants, softeners, and soluble oils and greases. Establishments primarily engaged in manufacturing petroleum sulfonates and "other assistants" such as egg yolks, wetting agent preparations, waterproofing emulsions and mordants, are also included in this industry. Establishments primarily engaged in manufacturing sodium and potassium bichromate are classified in Industry 2819, Industrial Inorganic Chemicals, N.E.C.; tannic acid and synthetic organic tanning materials in Industry 2829, Industrial Organic Chemicals, N.E.C.; leather dressings and finishes for fabricated leather in Industry 2842, Cleaning and Polishing Products; natural tanning extracts and materials in Industry 2865, Natural Tanning and Dyeing Materials; and sizes and specialty textile chemicals in Industry 2899, Chemical Products, N.E.C.						

See footnotes at end of table.



Code	Industry title and description	1954			1947		
		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
28	CHEMICALS AND PRODUCTS—Continued						
285	Paints, varnishes, pigments and allied products.....	70.0	95	95	69.0	(NA)	(NA)
2851	<u>Paints and Varnishes</u> (Paints, Varnishes, Lacquers, Japans, and Enamels).... Establishments primarily engaged in manufacturing paints (in paste form or mixed ready to use), varnishes, lacquers, japans, enamels, and shellac. Important products of this industry include water paints and calcimines (dry and paste); paints in paste form (white, or red lead in oil, zinc oxide in oil, colors in oil or japan); ready-mixed and semi-paste paints (paints in oil, undercoatings and primers, wall paints, stains, and bituminous paints); varnishes and varnish stains; clear and pigmented lacquers; enamels; japan; shellac and dopes.	56.6	95	97	53.4	94	96
2852	<u>Inorganic Color Pigments</u> ..... Establishments primarily engaged in manufacturing dry colors and inorganic color pigments. Important products of this industry include black pigments such as black iron oxide, white pigments, such as white lead and blanc fixe, and titanium pigments; color pigments, such as ultramarine and vermilion; and chrome, iron, and other dry colors.	12.2	88	88	14.3	88	84
2853	<u>Whiting and Fillers</u> (Whiting, Putty Wood Fillers, and Allied Paint Products)..... Establishments primarily engaged in manufacturing whiting from lime stone or chalk; whiting ground in oil (putty); and wood fillers and allied paint products such as caulking and glazing compounds. Establishments primarily engaged in manufacturing products like spackle and similar plasters are classified in Industry 3272, Gypsum Products.	1.2	89	47	1.3	81	53
286	Gum and wood chemicals.....	7.3	76	98	8.5	(NA)	(NA)
2861	<u>Hardwood Distillation</u> ..... Establishments primarily engaged in the destructive distillation of hardwood resulting in the production of charcoal and pyroligneous acid or raw liquor. Such establishments may be engaged in further distillation and washing processes resulting in the production of tars, oils, acids, and alcohols, such as hardwood pitch, wood creosote, natural acetic acid, wood oils, calcium acetate, ethyl acetate, methanol, and methyl acetone. Establishments primarily engaged in manufacturing synthetic acetic acid and methanol are classified in Industry 2829, Organic Chemicals, N.E.C.; and establishments primarily engaged in producing activated charcoal are classified in Industry 2819, Inorganic Chemicals, N.E.C.	1.6	91	100	1.9	94	96
2862	<u>Softwood Distillation</u> ..... Establishments primarily engaged in softwood distillation, resulting in the production of wood naval stores either by the steam-and-solvent process or by the destructive distillation process. Important products of this industry include wood turpentine, wood rosin, pine oil, pitch, tar, tar oils, charcoal, and wood creosote. This industry also includes establishments primarily engaged in manufacturing charcoal from softwood and sawdust in charcoal kilns, and pits, which do not recover the distillation products. Establishments primarily engaged in manufacturing turpentine and rosin by distillation of pine gum are classified in Industry 2863, Gum Naval Stores. Pulp mills producing sulfate wood naval stores (sulfate wood turpentine and tall oil), as byproducts of the production of pulp by the sulfate process are classified in Industry 2611, Pulp Mills.	4.4	68	98	4.6	83	99

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
28	CHEMICALS AND PRODUCTS—Continued						
286	Gum and wood chemicals—Continued						
2863	Gum Naval Stores..... Establishments primarily engaged in manufacturing turpentine and rosin by the distillation of pine gum. Establishments primarily engaged in manufacturing turpentine and rosin by wood distillation are classified in Industry 2862, Softwood Distillation, and those engaged in the gathering of pine gum are classified in the Forestry Industries.	.5	88	95	.6	98	99
2865	Tanning and Dyeing Materials (Natural Tanning and Dyeing Materials)..... Establishments primarily engaged in manufacturing solid and liquid tanning extracts from wood, bark, and other vegetable materials, as well as establishments primarily engaged in manufacturing natural dyeing materials from wood, bark, and other vegetable and animal materials. Establishments primarily engaged in manufacturing synthetic dyeing materials are classified in Industry 2822, Intermediates and Organic Colors. Synthetic tanning materials are classified in Industry 2829, Organic Chemical, N.E.C., chromium compounds in Industry 2819, Inorganic Chemicals, N.E.C., and leather assistants and finishes in Industry 2843, Sulfonated Oils and Assistants.	.7	83	92	1.4	88	78
287	Fertilizers.....	<sup>1</sup> 31.8	96	97	32.0	98	95
2871	Fertilizers (Fertilizers, Manufacturing and Mixing)..... Establishments primarily engaged in manufacturing mixed fertilizers (mixtures containing nitrogen, phosphoric acid (P <sub>2</sub> O <sub>5</sub> ) or potash), from one or more fertilizer materials produced in the same establishment. Sulfuric acid plants operated in conjunction with fertilizer plants and separately reported are classified in Industry 2811, Sulfuric Acid. Establishments primarily engaged in manufacturing fertilizer materials, such as muriate and sulfate of potash, or nitrogenous compounds, (such as ammonium sulfate and ammonium nitrate), but which are not engaged in manufacturing mixed fertilizers, are classified in Industry 2819, Inorganic Chemicals, N.E.C. Establishments primarily engaged in manufacturing mixed fertilizers from purchased fertilizer materials are classified in Industry 2872, Fertilizers, Mixing Only; and establishments primarily engaged in mixing, milling or otherwise preparing natural potassium, boron, or sodium compounds (other than common salt) are classified in Mineral Industry 1474, Potash, Soda, and Borate Minerals. Rendering plants manufacturing tankage, meat scraps, bone meals, and dried blood for fertilizer, are classified in Industry 2886, Grease and Tallow, and plants primarily engaged in manufacturing inoculants for legumes in Industry 2899, Miscellaneous Chemical Products. Municipal sewage disposal facilities producing activated sewage sludge are not included as manufacturing plants.	<sup>1</sup> 19.7	96	<sup>5</sup> 60	20.4	92	<sup>5</sup> 60
2872	Fertilizers, Mixing Only..... Establishments primarily engaged in mixing fertilizers from purchased fertilizer materials. Establishments primarily engaged in manufacturing mixed fertilizers from one or more fertilizer materials produced in the same establishment are classified in Industry 2871, Fertilizers.	<sup>1</sup> 12.0	95	<sup>5</sup> 44	11.6	98	<sup>5</sup> 47

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees <sup>1</sup> (1,000)	Spe- cial- iza- tion <sup>2</sup>	Industry ratio (percent) Cov- er- age <sup>3</sup>	All employ- ees <sup>1</sup> (1,000)	Spe- cial- iza- tion <sup>2</sup>	Industry ratio (percent) Cov- er- age <sup>3</sup>
28	CHEMICALS AND PRODUCTS—Continued						
288	Vegetable and animal oils.....	40.0	91	88	43.3	(NA)	(NA)
2881	<u>Cottonseed Oil Mills</u> ..... Establishments primarily engaged in manufacturing cottonseed oil and byproduct cake, meal, and linters. Establishments primarily engaged in refining cottonseed oil into edible cooking oils are classified in Industry 2092, Shortening and Cooking Oils, or Industry 2093, Margarine.	<sup>1</sup> 13.7	96	93	14.4	90	90
2882	<u>Linseed Oil Mills</u> ..... Establishments primarily engaged in manufacturing linseed oil and byproduct cake and meal. Plants primarily engaged in processing linseed oil (boiled, blown, or chemically modified) are also classified in Industry 2882.	<sup>1</sup> 1.3	94	90	1.6	77	87
2883	<u>Soybean Oil Mills</u> ..... Establishments primarily engaged in manufacturing soybean oil and byproduct cake and meal. Establishments primarily engaged in refining soybean oil into edible cooking oils are classified in Industry 2092, Shortening and Cooking Oils, or Industry 2093, Margarine.	<sup>1</sup> 6.9	88	96	6.5	96	80
2884	<u>Vegetable Oil Mills, Not Elsewhere Classified</u> ..... Establishments primarily engaged in manufacturing vegetable oils such as tung oil, castor oil, palm kernel oil, peanut oil, coconut oil, and other vegetable oils, n.e.c., and byproduct cake and meal. Establishments primarily engaged in refining vegetable oils into edible cooking oils are classified in Industry 2092, Shortening and Cooking Oils, and Industry 2093, Margarine, and those refining these oils for medicinal purposes in Industry 2833, Medicinal Chemicals. Establishments primarily engaged in shelling peanuts are excluded from manufacturing and classified in Trade Industries.	<sup>1</sup> 2.5	58	80	5.0	80	89
2886	<u>Grease and Tallow</u> ..... Establishments primarily engaged in rendering inedible grease and tallow from animal fat, bones, and meat scraps. Plants classified in this industry usually render grease and tallow from secondary sources, such as materials from restaurants and butcher shops, and from dead stock. Tankage, meat scraps and bonemeal for feed or fertilizer are important byproducts of the rendering process. Establishments primarily engaged in manufacturing lard and other edible animal fats are classified in Major Group 20, Food and Kindred Products, and those primarily producing processed tankage (digested inert organic nitrogenous waste materials such as felt, wool, hair, and feathers), and activated sewage sludge are classified in Industry 2871, Fertilizers.	11.5	88	<sup>5</sup> 55	12.4	90	<sup>5</sup> 52
2887	<u>Fatty Acids</u> ..... Establishments primarily engaged in manufacturing fatty acids such as stearic acid, oleic acid, fish and marine fatty acids, coconut-type fatty acids, and other unsaturated fatty acids fractionated from vegetable and animal oils and fats. Establishments primarily engaged in manufacturing low rosin fatty acids are classified in Industry 2611, Pulp Mills, and synthetic organic fatty acids in Industry 2829, Organic Chemicals, N.E.C.	<sup>1</sup> 1.9	68	73	1.3	86	76
2889	<u>Animal Oils, N.E.C.</u> ..... Establishments primarily engaged in manufacturing fish oils, marine animal oils and other animal oils, n.e.c. Establishments primarily engaged in refining these oils for medicinal purposes are classified in Industry 2833, Medicinal Chemicals.	<sup>1</sup> 2.3	89	<sup>13</sup> 66	2.2	94	( <sup>13</sup> )

See footnotes at end of table.



Code	Industry title and description	1954			1947		
		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
28	CHEMICALS AND PRODUCTS—Continued						
289	Miscellaneous chemical products.....	85.4	90	79	81.0	(NA)	(NA)
2891	<u>Printing Ink</u> .....	7.6	90	95	6.0	92	98
	Establishments primarily engaged in manufacturing printing ink, gold and bronze inks, and lithographic ink. Establishments primarily engaged in manufacturing writing and stamp pad inks are classified in Industry 2899, Chemical Products, N.E.C.; and varnishes for printers' inks in Industry 2851, Paints and Varnishes.						
2892	<u>Essential Oils</u> .....	.5	83	67	1.2	71	92
	Establishments primarily engaged in distilling, expressing, and refining natural essential oils. Included in this industry are such products as anise oil, citronella oils, eucalyptus oil, lemon oil, orange oil, peppermint oil and wintergreen oil. Establishments primarily engaged in manufacturing synthetic perfume and flavoring materials are classified in Industry 2829, Industrial Organic Chemicals, N.E.C., and blending and compounding perfume bases and concentrates in Industry 2893, Toilet Preparations.						
2893	<u>Toilet Preparations</u> (Perfume, Cosmetics, and other Toilet Preparations)....	24.8	91	<sup>5</sup> 77	27.2	84	<sup>5</sup> 72
	Establishments primarily engaged in manufacturing perfumes, cosmetics, and other toilet preparations such as toilet water, face powder, rouge, lipstick, personal deodorants, washes and lotions; hair dyes, tonics, dressings, and shampoos; bath salts, manicure preparations, tooth paste, and tooth powder. This industry also includes establishments primarily engaged in manufacturing shampoos and shaving preparations from purchased soap. Establishments primarily engaged in manufacturing synthetic perfume and flavoring materials are classified in Industry 2829, Industrial Organic Chemicals, N.E.C.; and soap, and soap products prepared in soap kettles located at the same plant, in Industry 2841, Soap and Glycerin.						
2894	<u>Glue and Gelatin</u> .....	6.8	87	67	7.9	82	76
	Establishments primarily engaged in manufacturing (1) industrial and household adhesives, glues, and cements from vegetable or animal materials including purchased casein and synthetic resins; and (2) edible, technical, photographic, or pharmaceutical gelatins from animal materials. Establishments primarily engaged in manufacturing rubber cement are classified in Industry 3099, Rubber Industries, N.E.C., dessert preparations with gelatin base in Industry 2099, Miscellaneous Food Preparations, N.E.C., vegetable gelatin or agar-agar in Industry 2832, Botanical Products; and dental glue and cements in Industry 3843, Dental Equipment and Supplies.						
2895	<u>Carbon Black (Bone Black, Carbon Black, and Lamp Black)</u> .....	3.4	100	98	3.2	100	97
	Establishments primarily engaged in manufacturing bone black, carbon black (channel and furnace black), and lamp black. Establishments primarily engaged in manufacturing activated carbons are classified in Industry 2819, Industrial Inorganic Chemicals, N.E.C., and charcoals in Industries 2861 and 2862, Softwood and Hardwood Distillation.						

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
28	CHEMICALS AND PRODUCTS—Continued						
289	Miscellaneous chemical products—Continued						
2896	<u>Compressed and Liquefied Gases</u> .....	10.4	99	84	9.0	100	84
	Establishments primarily engaged in manufacturing gases for sale in compressed, liquid, and solid form, such as acetylene, carbon dioxide (dry ice), helium, nitrous oxide, refrigerant gases (except ammonia), and oxygen. Establishments primarily engaged in manufacturing ammonia, chlorine, and sulfur dioxide are classified in Group 281, Industrial Inorganic Chemicals. Natural gasoline plants engaged in the production of gases in compressed and liquefied form are classified in Mining Industries, and petroleum refineries producing hydrocarbon gases in Industry 2911, Petroleum Refining. Establishments primarily engaged in the shipment of purchased gases whether received in gaseous or liquid form, are excluded from manufacturing and classified in Trade Industries.						
2897	<u>Insecticides and Fungicides</u> .....	6.5	84	82	4.1	87	68
	Establishments primarily engaged in manufacturing inorganic insecticides such as copper, calcium, and lead arsenates, lime-sulfur, sulfur-dust, Paris green, and calcium and sodium arsenite; organic insecticides such as rotenone, pyrethrum, and nicotine-bearing insecticides; and miscellaneous insecticides such as organic thiocyanates, DDT, xanthone, and similar products; and fungicides such as copper, sulfur, and mercury-containing fungicides. Other products included in this industry are intermediate natural products used in making agricultural preparations, such as ground rotenone or pyrethrum extract. Establishments primarily engaged in manufacturing household insecticides (including rodenticides, plant fumigants, weed killers, soil conditioners and fumigants, and animal dips) are classified in Industry 2899, Chemical Products, N.E.C., while plants primarily engaged in producing synthetic organic chemicals and inorganic compounds such as white arsenic or copper sulfate used for agricultural poisons are classified in Industry 2829, Industrial Organic Chemicals, N.E.C., and Industry 2819, Industrial Inorganic Chemicals, N.E.C., respectively.						
2898	<u>Salt</u> .....	4.0	96	97	4.8	100	98
	Establishments primarily engaged in manufacturing edible salt from rock salt and from natural or artificial brines. Establishments engaged in salt mining are excluded from Manufacturing and classified in Mineral Industries.						
2899	<u>Chemical Products, N.E.C. (Chemicals and Chemical Products, N.E.C.)</u> .....	21.4	81	70	17.6	75	64
	Establishments primarily engaged in manufacturing miscellaneous chemical products, n.e.c., such as bluing, laundry soaps, mucilage, writing and stamp pad inks and dextrine sizes; agricultural industrial, and household disinfectants and deodorants; household insecticides and repellents such as fly sprays, rat, ant, and roach poisons and moth repellents and industrial compounds, such as boiler and insulating compounds, metal, oil, and water-treating compounds, water-proofing compounds, and chemical supplies for foundries. Such specialties containing animal, vegetable or mineral oil bases, and hydraulic brake fluids; dielectric oils; rust preventatives; or cutting, grinding, or drawing compounds or paste, are classified in Major Group 29, Products of Petroleum and Coal.						
29	PETROLEUM AND COAL PRODUCTS						
	This major group includes establishments refining crude petroleum and manufacturing coke and coke-oven products, paving and roofing materials, and other products made from petroleum and coal. Establishments manufacturing gas (water or coke-oven) and distributing gas to consumers are classified in public utility industries, and establishments primarily engaged in producing crude petroleum, natural gas, natural gasoline and cycle condensates are classified in Mining Industries.						

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
29	PETROLEUM AND COAL PRODUCTS—Continued						
291	Petroleum refining.....	153.1	99	98	145.8	99	97
2911	<u>Petroleum Refining.....</u> Establishments primarily engaged in producing gasoline, fuel oils, lubricants, illuminating oils, kerosene, petroleum waxes, liquefied gases, asphalt, unfinished oils and other finished petroleum products from crude petroleum and its fractionation in petroleum refineries. Establishments primarily engaged in re-refining or reclaiming used oils (crankcase draining) by a distillation process are also included in this industry. Refineries engaged in blending and compounding lubricants are included in Industry 2911 but establishments primarily engaged in blending and compounding lubricants from purchased materials are classified in Industry 2992, Lubricants, N.E.C. Establishments engaged in producing natural gasoline or cycle condensates from natural gas are classified in Mineral Industries and petroleum bulk stations or distribution terminals are classified in Wholesale Trade and activities relating to pipe-line and other long distance transportation facilities are classified in Transportation Industries.	153.1	99	98	145.8	99	97
293	Coke and byproducts.....	32.5	100	100	32.8	100	100
2931	<u>Beehive Coke Ovens.....</u> Establishments primarily engaged in producing coke in beehive ovens. Coke produced in "byproduct" coke ovens is classified in Industry 2932, Byproduct Coke Ovens. Coke ovens owned and operated by public utilities are classified as public utilities, and are excluded from the scope of manufactures.	.6	100	<sup>5</sup> 1	3.1	100	<sup>5</sup> 9
2932	<u>Byproduct Coke Ovens.....</u> Establishments primarily engaged in manufacturing coke, coal gas, tar, and other products such as ammonium sulfate and liquor, crude light oil, and naphthalene in "byproduct" coke ovens. Establishments primarily engaged in the production of coke in beehive ovens are classified in Industry 2931, Beehive Coke Ovens. Establishments operated in conjunction with utilities manufacturing or distributing gas are classified as utilities and excluded from the scope of manufactures.	31.9	100	<sup>5</sup> 99	29.7	100	<sup>5</sup> 92
295	Paving and roofing materials.....	20.1	93	95	19.3	(NA)	(NA)
2951	<u>Paving Mixtures and Blocks.....</u> Establishments primarily engaged in manufacturing asphalt and tar paving mixtures and in manufacturing paving blocks made of asphalt, creosoted wood, and various compositions of asphalt or tar with other materials. Plants primarily engaged in producing emulsified asphalt, unless made in petroleum refineries, are also included. Establishments primarily engaged in manufacturing brick, concrete, granite, and stone paving blocks are classified in Major Group 32, Stone, Clay and Glass Products. General contractors constructing roads, streets, etc., and producing asphalt tar paving mixtures are classified in Construction Industries.	4.4	97	94	2.8	99	88
2952	<u>Roofing Felts and Coatings.....</u> Establishments primarily engaged in manufacturing asphalt and other saturated roofing felts in roll or shingle form, either smooth or faced with grit, and in manufacturing roofing cements and coatings, asphalt sidings, asphalt saturated fabrics, mastic roofing composition, and asphalt board products. Establishments primarily engaged in manufacturing paint are classified in Industry 2851, Paints and Varnishes; asphalted felt-base floor coverings in Industry 2274, Hard-Surface Floor Coverings; asphalt and tar paving mixtures and blocks in Industry 2951, Paving Mixtures and Blocks; and asphalt floor tile and asbestos-cement shingles and clapboard in Industry 3292, Asbestos Products.	15.7	91	94	16.5	95	95

See footnotes at end of table.



## APPENDIX A

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Code	Industry title and description	1954			1947		
		All employ- ees <sup>1</sup>  (1,000)	Industry ratio (percent)		All employ- ees <sup>1</sup>  (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
29	PETROLEUM AND COAL PRODUCTS—Continued						
299	Miscellaneous petroleum and coal products.....	10.2	89	22	9.7	(NA)	(NA)
2992	Lubricants, N.E.C.....	8.2	87	<sup>5</sup> 18	8.0	89	<sup>5</sup> 19
	Establishments primarily engaged in blending and compounding lubri- cating oils and greases from purchased mineral, animal, and vegetable materials. Important products of this industry include hydraulic fluids, quenching and cutting oils, corrosion inhibitors, oil treat- ing compounds, and liquid rust preventatives. Petroleum refineries engaged in the production of lubricating oils and greases from petroleum products are classified in Industry 2911, Petroleum Refining.						
2999	Petroleum and Coal Products, N.E.C.....	2.0	94	89	1.7	100	100
	Establishments primarily engaged in manufacturing fuel briquets, boulets, and packaged fuel from anthracite culm, bituminous slack, charcoal, coke screenings, sawdust or other materials usually mixed with tar or other binders; and in manufacturing powdered fuel. Other products included in this industry are calcined petroleum coke, asphaltic protective coatings, petroleum drying oils, and petroleum and coal products not classified in other industries of Major Group 29.						
30	RUBBER PRODUCTS						
	This major group includes establishments manufacturing from natural or synthetic rubber, gutta percha, balata, or gutta siak, all kinds of rubber products such as tires, rubber footwear, rubber heels and soles, mechanical rubber goods, and rubber sundries. This group also includes establishments manufacturing reclaimed rubber or rebuilt and retreaded rubber tires. Automobile tire repair shops engaged in the recapping and the retreading of automobile tires are classified in Service Industries, however, those primarily rebuilding and retreading tires for the trade or for wholesale sale are included in Major Group 30. The manufacture of elastic webbing is classified in Major Group 22, Textile Mill Products; products made of elastic webbing and garments made from rubberized fabrics in Major Group 23, Apparel and Related Products and synthetic rubber in Industry 2824, Synthetic Rubber.						
301	Tires and inner tubes.....	92.7	88	99	115.7	90	95
3011	Tires and Inner Tubes.....	92.7	88	99	115.7	90	95
	Establishments primarily engaged in manufacturing pneumatic casings, inner tubes, and solid and cushion tires (including seconds) for all types or vehicles, including off the road vehicles such as road build- ing machinery, logging equipment, etc. Establishments primarily en- gaged in manufacturing camelback and tire repair materials, or rubber tiring for baby carriages, bicycles, etc., or producing factory re- built or retread tires are classified in Industry 3099, Rubber In- dustries, N.E.C.						
302	Rubber footwear.....	18.3	84	85	28.1	80	99
3021	Rubber Footwear.....	18.3	84	85	28.1	80	99
	Establishments primarily engaged in manufacturing all-rubber footwear, waterproof fabric-upper footwear, and other fabric-upper footwear having rubber soles. Establishments primarily engaged in manufac- turing rubber, composition, and fiber heels, soles, soling strips, and related shoemaking and repairing materials are classified in Industry 3099, Rubber Industries, N.E.C. Establishments primarily engaged in manufacturing footwear, except rubber, are classified in Industry 3141, Footwear, Except Rubber; house slippers in Industry 3142, House Slippers and plastic arctics and gaiters in Industry 3971, Plastic Products, N.E.C.						

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
30	RUBBER PRODUCTS—Continued						
303	Reclaimed rubber.....	3.0	87	74	2.1	95	44
3031	Reclaimed Rubber.....	3.0	87	74	2.1	95	44
	Establishments primarily engaged in reclaiming rubber from used tires, scrap, and miscellaneous waste rubber by manufacturing processes which result in a product that is sold for mixing with crude rubber and artificial rubber as an extender. Establishments primarily engaged in the assembly and wholesale sale of scrap rubber, but not engaged in manufacturing reclaimed rubber, are classified in Trade Industries covered by the 1954 Census of Business.						
309	Rubber industries, n.e.c.....	132.5	88	78	112.4	85	81
3099	Rubber Industries, N.E.C.....	132.5	88	78	112.4	85	81
	Establishments primarily engaged in manufacturing industrial and mechanical rubber goods, rubberized fabrics and vulcanized rubber clothing, and miscellaneous rubber specialties and sundries. Establishments primarily engaged in rebuilding and retreading tires for the trade, or for sale at wholesale are included in this industry but the rebuilding or retreading of rubber tires by tire-repair shops is classified in Service Industries.						
	Establishments primarily engaged in manufacturing rubber clothing and waterproof outer garments from rubber sheeting or from rubberized fabrics produced in the same establishment are classified in this industry. Establishments primarily manufacturing such garments from purchased rubber sheeting or rubberized fabrics are classified in Industry 2385, Waterproof Outergarments.						
	Excluded from Industry 3099 are plants primarily producing such rubber products as covered rubber thread, Industry 2241, Narrow Fabric Mills; pyroxylin and resin-coated fabrics, Industry 2295, Coated Fabrics, Except Rubberized; rubber girdles, garters, hose supports, arm bands and suspenders, Major Group 23, Apparel and Related Products; complete rubber or latex mattresses, Industry 2515, Mattresses and Bedsprings; rubber gaskets and seals, Industry 3293, Gaskets and Asbestos Insulations; rubber printers' rolls, Industry 3555, Printing Trades Machinery; dental rubber, Industry 3843, Dental Equipment and Supplies; rubber dolls, Industry 3942, Dolls; bowling balls, golfballs, tennis balls, footballs, and basketballs, Industry 3949, Sporting and Athletic Goods; and rubber hand stamps, Industry 3953, Hand Stamps and Stencils.						
31	LEATHER AND LEATHER PRODUCTS						
	This major group includes establishments engaged in tanning, currying, and finishing hides and skins, and establishments manufacturing finished leather and artificial leather products and some similar products made of other materials. Leather "converters" who assign hides and skins to contractors for tanning and finishing, are included in Industry 3111, Leather Tanning and Finishing.						

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
31	LEATHER AND LEATHER PRODUCTS--Continued						
311	Leather tanning and finishing.....	43.5	98	100	53.3	100	100
3111	<u>Leather Tanning and Finishing</u> .....	43.5	98	100	53.3	100	100
	Establishments primarily engaged in tanning, currying, and finishing sole and belting leathers, upper and lining leathers, and miscellaneous specialty leathers, and in embossing, japanning, and currying leathers. Three types of establishments operate in this industry: (1) the regular tannery which tans, curries, and finishes hides or skins for its own account; (2) the leather converters who buy the raw or semi-processed skins and hides, arrange for the tanning and finishing of leathers by employing tanneries to process the materials for their account, and sell the final product; and (3) the "contract tanners" which tan, curry and finish hides or skins owned by others. Establishments which are primarily wholesalers or dealers in that they purchase and resell leathers but do not perform the functions of leather converters are classified in Wholesale Trade.						
312	Industrial leather belting.....	4.6	97	92	5.0	91	98
3121	<u>Industrial Leather Belting</u> (Industrial Leather Belting and Packing).....	4.6	97	92	5.0	91	98
	Establishments primarily engaged in manufacturing leather belting used for transmission of power, and leather packing. Other products included in this industry are leather oil and grease retainers and other industrial leather products.						
	Establishments primarily engaged in producing gaskets (regardless of material) and asbestos packings are included in Industry 3293, Gaskets and Asbestos Insulations; rubber belting and packing are included in Industry 3099, Rubber Industries, N.E.C.; plastic belting and packing in Industry 3971, Plastics Products, N.E.C.; and metallic packing Industry 3599, Machine Shops.						
313	Footwear cut stock.....	20.1	97	96	22.1	99	97
3131	<u>Footwear Cut Stock</u> (Boot and Shoe Cut Stock and Findings).....	20.1	97	96	22.1	99	97
	Establishments primarily engaged in manufacturing leather soles, inner soles, and other shoe cut stock, and leather welting, shanks, heel and toe caps, leather shoe laces, finished wood heels, and other boot shoe findings. Footwear cut stock and findings made of leatherboard are also included in this industry, but establishments primarily engaged in manufacturing heels, soling strip and soles made of rubber, composition and fiber, are classified in Industry 3099, Rubber Industries, N.E.C.; those made of plastics are classified in Industry 3971, Plastics Products, N.E.C.						
314	Footwear (except rubber).....	230.3	100	100	240.3	(NA)	(NA)
3141	<u>Footwear, Except Rubber</u> (Footwear, Except House Slippers and Rubber Footwear).....	219.4	99	99	230.9	99	100
	Establishments primarily engaged in manufacturing shoes, sandals, moccasins, boots, and allied footwear, and leggings, over-gaiters, etc., made chiefly of leather, but to some extent of canvas and other textiles. Also included in this industry are dress, work, play, or sport shoes made from leather, part-leather, on non-leather uppers such as plastics, and soles made from leather, composition, rubber, cork, etc., provided the shoes are made on conventional shoe machinery rather than by a rubber vulcanization process. Establishments primarily engaged in manufacturing rubber vulcanized footwear, including rubber-soled canvas shoes are classified in Industry 3021, Rubber Footwear; house slippers in Industry 3142, House Slippers. Footwear made by custom boot makers are excluded from manufacturing and such establishments are classified in Retail Trade.						

See footnotes at end of table.



Code	Industry title and description	1954			1947		
		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
31	LEATHER AND LEATHER PRODUCTS--Continued						
314	Footwear (except rubber)--Continued						
3142	House Slippers..... Establishments primarily engaged in manufacturing house slippers of leather or other materials, except as noted. Establishments primarily engaged in making vulcanized rubber slippers (beach and shower slippers, scuffs, etc.) are classified in Industry 3021, Rubber Footwear; wooden slippers, including wooden clogs, are classified in Industry 2499, Wood Products, N.E.C., and paper bath slippers in Industry 2699, Converted Paper Products, N.E.C. Textile mills producing slipper socks are classified in Industry 2252, Seamless Hosiery.	10.9	89	87	9.4	93	83
315	Leather gloves and mittens.....	6.9	88	90	11.6	91	91
3151	Leather Dress Gloves (Dress and Semidress Leather Gloves)..... Establishments primarily engaged in manufacturing dress and semidress gloves exclusively of leather. Establishments primarily engaged in manufacturing leather work gloves and mittens are classified in Industry 3152, Leather Work Gloves; knit gloves in Industry 2255, Knit Glove Mills; dress and semidress gloves and mittens made of cloth or cloth and leather combined in Industry 2381, Fabric and Combination Dress Gloves; and sport and athletic gloves in Industry 3949, Sporting and Athletic Goods.	4.4	86	91	8.9	94	95
3152	Leather Work Gloves (Leather Work Gloves and Mittens)..... Establishments primarily engaged in manufacturing leather work gloves and mittens. Establishments primarily engaged in manufacturing dress and semidress leather gloves are classified in Industry 3151, Leather Dress Gloves; knitted work gloves in Industry 2255, Knit Glove Mills; work gloves and mittens of cloth, or cloth and leather combined in Industry 2382, Fabric and Combination Work Gloves; and sporting and athletic gloves in Industry 3949, Sporting and Athletic Goods.	2.5	82	81	2.7	82	82
316	Luggage.....	<sup>1</sup> 15.9	94	97	16.0	94	97
3161	Luggage (Suitcases, Briefcases, Bags, Trunks, and Other Luggage)..... Establishments primarily engaged in manufacturing suitcases, briefcases, bags, trunks, and related luggage of leather or other materials. Other products included in this industry are: hat boxes, (except paper or paperboard), camera and binocular cases, toilet kits and cases. Establishments primarily engaged in manufacturing luggage hardware are classified in Industry 3429, Hardware, N.E.C.	<sup>1</sup> 15.9	94	97	16.0	94	97
317	Handbags and small leather goods.....	29.5	96	96	26.0	97	95
3171	Handbags and Purses (Women's Handbags and Purses)..... Establishments primarily engaged in manufacturing women's handbags and purses of leather or other materials.	<sup>1</sup> 22.9	97	98	20.4	99	97
3172	Small Leather Goods..... Establishments primarily engaged in manufacturing small leather articles such as billfolds, card cases, cigarette cases, key cases, coin purses, tobacco pouches, and checkbook covers. Also included are establishments making these products from plastic and non-leather materials.	<sup>1</sup> 6.7	91	87	5.6	90	90

## APPENDIX A

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Code	Industry title and description	1954			1947		
		All employ- ees <sup>1</sup>  (1,000)	Industry ratio (percent)		All employ- ees <sup>1</sup>  (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
31	LEATHER AND LEATHER PRODUCTS—Continued						
319	Miscellaneous leather goods.....	5.9	92	85	9.0	(NA)	(NA)
3192	<u>Saddlery, Harness, and Whips.....</u> Establishments primarily engaged in manufacturing saddles and parts, harness and parts, halters, horse boots, feed bags, whips and crops, whipstocks, and whip handles. Establishments primarily engaged in manufacturing bicycle and motorcycle saddles are classified in Industry 3751, Motorcycles and Bicycles; those manufacturing saddlery and harness hardware in Industry 3429, Hardware, N.E.C.	<sup>1</sup> 1.3	88	87	2.9	86	92
3199	<u>Leather Goods, N.E.C.....</u> Establishments primarily engaged in manufacturing miscellaneous leather goods, n.e.c., including embossed leather goods, leather desk sets, dog collars and other dog furnishings, novelties, razor strops, and safety belt. Establishments primarily engaged in manufacturing leather garments are classified in Industry 2386, Leather and Sheep-Lined Clothing; leather belts (made for sale separately) in Industry 2387, Belts; leather gaskets in Industry 3293, Gaskets and Asbestos Insulations; leather buffing and polishing wheels in Industry 3291, Abrasive Products.	<sup>1</sup> 4.6	91	82	6.2	90	80
32	STONE, CLAY, AND GLASS PRODUCTS  This major group includes establishments engaged in manufacturing flat glass and other glass products, cement, structural clay products, pottery, concrete and gypsum products, cut-stone products, abrasive and asbestos products, etc., principally from stone, clay, and sand. When separate reports are available for mines and quarries operated by manufacturing establishments classified in this major group, the mining activities are classified in mining industries; when separate reports are not available, the mining activities are classified with the manufacturing operations and included herein. Excluded from Major Group 32 are such glass products as electric lamps (bulbs) and lenses which are classified in Industry 3651, Electric Lamps and Major Group 38, Instruments and Related Products, respectively.						
321	Flat glass.....	24.6	<sup>1</sup> 490	(D)	25.3	99	75
3211	<u>Flat Glass.....</u> Establishments primarily engaged in manufacturing flat glass, including plate glass, clear window glass, rolled glass, figured and wire glass, opalescent and obscured glass, spectacle glass, and cathedral and skylight glass. This industry also produces laminated glass, but establishments primarily engaged in manufacturing laminated glass from purchased flat glass are classified in Industry 3231, Products of Purchased Glass.	24.6	<sup>1</sup> 490	(D)	25.3	99	75
322	Pressed and blown glassware.....	91.3	99	99	89.3	(NA)	(NA)
3221	<u>Glass Containers.....</u> Establishments primarily engaged in manufacturing glass containers for commercial packing and bottling, and for home canning. Products of this industry (which may be machine-made or hand-made) include ampoules, carboys, cosmetic jars, fruit jars, medicine bottles, milk bottles, and vials.	49.4	98	99	47.1	(D)	(D)

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
32	STONE, CLAY, AND GLASS PRODUCTS--Continued						
322	Pressed and blown glassware--Continued						
3229	<u>Pressed and Blown Glassware, N.E.C.</u> .....	41.9	98	96	42.2	96	91
	Establishments primarily engaged in manufacturing pressed and blown glass and glassware, n.e.c. Important products of this industry include machine-made or hand-made glass tableware; glass blanks for electric light bulbs, light shades and reflectors, and other lighting glassware; glass tubing and other technical, scientific, and industrial pressed and blown glassware; glass cooking and oven ware; glass brick; glass insulators; electronic tube blanks; lens blanks; battery jars; blocks and tile. Also included in this industry are establishments primarily engaged in the production of glass fiber strand, staple yarn, continuous yarn, roving, bonded matting, and plastic reinforcement material.						
	Establishments primarily engaged in the production of pressed lenses for headlights, beacons, and lanterns are also included in this industry, but establishments primarily engaged in the production of optical lenses are classified in Industry 3831, Optical Lenses and Prisms. Establishments primarily engaged in manufacturing glass containers are classified in Industry 3221, Glass Containers, and complete electric light bulbs in Industry 3651, Electric Lamps.						
323	Products of purchased glass.....	21.6	97	75	23.9	97	85
3231	<u>Products of Purchased Glass</u> .....	21.6	97	75	23.9	97	85
	Establishments primarily engaged in manufacturing glass products from purchased glass, including laminated or safety glass, stained, leaded, ornamented, and decorated glass; mirrors; cutware; scientific-apparatus glass; glass novelties; mosaic glass; round glass; cut, beveled, and etched glass; and glass watch crystals. Establishments primarily engaged in manufacturing optical lenses and ophthalmic lenses are classified in Major Group 38, Instruments and Related Products; glass fabrics in Industry 2234, Synthetic Broad-Woven Fabrics, glass insulation in Industry 3275, Mineral Wool; glass fishing rods in Industry 3949, Sporting and Athletic Goods.						
324	Cement,hydraulic.....	39.8	99	100	35.7	100	100
3241	<u>Cement,Hydraulic</u> .....	39.8	99	100	35.7	100	100
	Establishments primarily engaged in manufacturing hydraulic cement, including Portland, natural, masonry, and puzzolan cements.						
325	Structural clay products.....	72.8	97	99	69.3	(NA)	(NA)
3251	<u>Brick and Hollow Tile</u> .....	32.4	96	98	29.6	95	97
	Establishments primarily engaged in manufacturing clay building brick, vitrified paving brick, and hollow structural tile. Establishments primarily engaged in manufacturing fire-brick are classified in Industry 3255, Clay Refractories; sand-lime brick in Industry 3299, Non-metallic Mineral Products, N.E.C.; glass brick in Industry 3229, Pressed and Blown Glassware, N.E.C.; and concrete brick in Industry 3271, Concrete Products.						
3253	<u>Clay Floor and Wall Tile</u> .....	11.3	91	99	6.8	97	95
	Establishments primarily engaged in manufacturing ceramic tile, mosaic tile, glazed and enameled tile, including faience and other types of ceramic floor and wall tile (except quarry or drain tile--Industry 3259, Structural Clay Products, N.E.C.). Establishments primarily engaged in manufacturing hollow structural tile and ceramic and salt glazed facing tile are classified in Industry 3251, Brick and Hollow Tile; asphalt floor tile in Industry 3292, Asbestos Products; rubber tile in Industry 3099, Rubber Products, N.E.C.; and other floor and wall covering in Industry 2274, Hard Surface Floor Coverings.						

See footnotes at end of table.



Code	Industry title and description	1954			1947		
		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
32	STONE, CLAY, AND GLASS PRODUCTS--Continued						
325	Structural clay products--Continued						
3254	<u>Clay Sewer Pipe</u> ..... Establishments primarily engaged in manufacturing sewer pipe and kindred products made of clay. Establishments primarily engaged in manufacturing concrete sewer pipe are classified in Industry 3271, Concrete Products, and cast iron sewer pipe in Industry 3321, Gray-iron Foundries.	9.6	88	92	9.1	83	92
3255	<u>Clay Refractories</u> ..... Establishments primarily engaged in manufacturing fire brick, crucibles, and other heat-resisting clay products such as glass-house tank blocks, stoppers, floaters, and rings. Establishments primarily engaged in manufacturing nonclay refractories are classified in Industry 3297, Nonclay Refractories.	14.5	92	95	18.0	93	94
3259	<u>Structural Clay Products, N.E.C.</u> ..... Establishments primarily engaged in manufacturing structural clay products, n.e.c., such as architectural terra cotta, roofing tile, stove lining, flue lining, chimney pipes, thimbles and tops, wall coping, segment blocks, drain tile, adobe brick, and quarry or promenade tile.	5.0	89	72	5.7	83	70
326	Pottery and related products.....	50.9	98	95	58.0	(NA)	(NA)
3261	<u>Vitreous Plumbing Fixtures (Vitreous and Semivitreous Plumbing Fixtures)</u> ... Establishments primarily engaged in manufacturing vitreous and semivitreous pottery plumbing fixtures and accessories. Important products of this industry include bathroom and toilet fixtures, closet bowls, flush tanks, lavatories and stalls, bathtubs, laundry trays, shower receptors, sinks, sink and laundry tray combinations, urinals, and plumbing fittings such as towel racks, soap cups, and accessories. Establishments primarily engaged in manufacturing enameled-iron, cast iron, or pressed metal sanitary ware are classified in Industry 3431, Metal Plumbing Fixtures.	9.2	99	99	7.8	98	99
3262	<u>Vitreous-China Food Utensils (Vitreous-China Table and Kitchen Articles)</u> ... Establishments primarily engaged in manufacturing vitreous-china table and kitchen articles for use in households and in hotels, restaurants, and other commercial institutions, for preparing, serving, or storing food and drink. Establishments primarily engaged in manufacturing fine (semivitreous) types of earthenware (whiteware) table and kitchen articles are classified in Industry 3263, Earthenware Food Utensils.	8.7	95	96	11.1	97	97
3263	<u>Earthenware Food Utensils (Fine Earthenware, Whiteware, Table and Kitchen Articles)</u> ..... Establishments primarily engaged in manufacturing fine (semivitreous) types of earthenware table and kitchen articles for preparing, serving, or storing food or drink. Decorated and undecorated earthenware and whiteware for hotel, commercial or household kitchen and table use are included. Establishments primarily engaged in manufacturing vitreous-china table and kitchen articles are classified in Industry 3262, Vitreous-China Food Utensils.	13.3	98	92	16.7	92	97
3264	<u>Porcelain Electrical Supplies</u> ..... Establishments primarily engaged in manufacturing porcelain electrical insulators, molded porcelain parts for electrical devices, spark plug and steatitic porcelain, and other electrical supplies from clay and other ceramic materials.	9.6	94	87	11.5	89	93

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
32	STONE, CLAY, AND GLASS PRODUCTS--Continued						
326	Pottery and related products--Continued						
3265	China Decorating for the Trade..... Establishments primarily engaged in firing and decorating white china and earthenware for the trade. Establishments primarily engaged in decorating purchased china or china transferred from other plants of the company are also included in this industry but those plants which are primarily engaged in manufacturing and decorating china are classified in other industries according to the type of china produced. Establishments primarily engaged in firing and decorating china to individual order are classified as nonmanufacturing and included in Trade Industries.	.5	100	100	1.0	100	98
3269	Pottery Products, N.E.C..... Establishments primarily engaged in manufacturing art and decorative pottery, industrial and laboratory ware and miscellaneous crockery, earthenware, stoneware and other pottery products not elsewhere classified. Important products of this industry include china, earthenware, and stoneware figures, table and kitchen articles; vases, lamp bases, and garden pottery; chemical porcelain; industrial or laboratory ware; grinding media; forms for dipped rubber goods; filtering media; earthenware flower pots; and pyrometric cones and tubes.	9.6	95	90	9.7	95	83
327	Concrete and plaster products.....	89.6	96	98	70.2	(NA)	(NA)
3271	Concrete Products..... Establishments primarily engaged in manufacturing concrete building blocks and shapes, pipe and conduit, and similar products such as poles, piling, septic tanks, garbage boxes, garden furniture, incinerators, and vaults made from a combination of stone or gravel, sand, and cement. Contractors engaged in concrete construction work are classified in Construction Industries, and building-materials dealers engaged in mixing and delivering ready-mixed concrete in Trade Industries.	60.4	99	99	46.8	99	99
3272	Gypsum Products..... Establishments primarily engaged in manufacturing plaster, plaster board, and other products composed wholly or chiefly of gypsum.	11.0	95	98	7.5	97	98
3274	Lime..... Establishments primarily engaged in manufacturing quicklime, hydrated lime, and dead-burned dolomite from limestone, dolomite, shells, or other substances. Establishments primarily engaged in manufacturing cut limestone and limestone products are classified in Industry 3281, Cut-Stone and Stone Products; and pulverized limestone in Industry 3295, Minerals: Ground or Treated.	8.0	84	97	7.0	93	97
3275	Mineral Wool..... Establishments primarily engaged in manufacturing mineral wool and mineral-wool insulation products made of such materials as rock, slag, and silica. Establishments primarily engaged in manufacturing asbestos and exfoliated vermiculite insulation products are classified in Group 329, Nonmetallic Mineral Products, N.E.C.	10.2	95	93	8.9	(D)	(D)

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
32	STONE, CLAY, AND GLASS PRODUCTS--Continued						
328	Cut-stone and stone products.....	21.6	93	99	9.9	100	98
3281	<u>Cut-Stone and Stone Products</u> ..... Establishments primarily engaged in cutting, shaping, and finishing marble, granite, slate, and other stone for building and miscellaneous uses. Important products of this industry include monuments and tombstones, dimension stones for buildings, slate blackboards, and stone furniture. Quarries operated in conjunction with stone-dressing activities are included in this industry. Establishments primarily engaged in buying or selling partly finished monuments and tombstones, but performing no work on the stones other than lettering or finishing to custom order, are classified in Trade Industries. The cutting of grindstones, pulpstones, and whetstones at the quarry is classified in Mineral Industries.	21.6	93	99	9.9	100	98
329	Miscellaneous nonmetallic mineral products.....	79.6	94	89	79.6	(NA)	(NA)
3291	<u>Abrasive Products</u> ..... Establishments primarily engaged in manufacturing abrasive grinding wheels of natural or synthetic materials; abrasive sticks, stones, bricks, paper, and cloth; abrasive grains, natural or manufactured; and buffing and polishing wheels. The cutting of grindstones, pulp-stones, and whetstones at the quarry is classified in Mining Industries.	22.3	94	87	21.0	94	86
3292	<u>Asbestos Products</u> ..... Establishments primarily engaged in manufacturing asbestos textiles, asbestos building materials (except asbestos paper--Industry 2613, Building Paper and Board Mills), and other commodities composed wholly or chiefly of asbestos, (except steam and other packing, pipe and boiler covering, and gaskets, Industry 3293). Other asbestos products included in Industry 3292 are brake lining, clutch facings, floor tile insulating cement, rope, stove mats, and table pads.	22.0	87	93	21.6	87	90
3293	<u>Gaskets and Asbestos Insulations</u> (Steam and Other Packing, and Pipe and Boiler Covering)..... Establishments primarily engaged in manufacturing packing for steam, water, and other pipe joints, and for engines, air compressors, etc.; asbestos insulating materials for covering boilers and pipes; and gaskets. Establishments primarily engaged in manufacturing leather packing are classified in Industry 3121, Industrial Leather Belting, rubber packing in Industry 3099, Rubber Products, N.E.C., and metal packing in Industry 3599, Machine Shops.	12.8	86	70	13.2	83	75
3295	<u>Minerals: Ground or Treated</u> (Minerals and Earths: Ground or Otherwise Treated)..... Establishments primarily engaged in grinding, pulverizing, or otherwise treating certain earths, rocks, or minerals, such as barytes, borax, chalk, clays, Cornwall stone, feldspar, kaolin, mica, pumice, quartz, silica, talc, and natural graphite as well as establishments primarily engaged in crushing or grinding purchased slag.	7.7	98	87	8.9	94	88
3297	<u>Nonclay Refractories</u> ..... Establishments primarily engaged in manufacturing refractories and crucibles made of materials other than clay. Establishments primarily engaged in manufacturing clay refractories and crucibles are classified in Industry 3255, Clay Refractories.	8.6	96	90	10.3	94	91
3298	<u>Statuary and Art Goods</u> ..... Establishments primarily engaged in the factory production of statuary and art goods made of plaster of Paris, papier-maché, gypsum, and clay. Important products of this industry include such articles as statuary, small images, and architectural sculptures; ornamental plaster work such as mantels, columns, panels, moldings, brackets, vases, urns, and pedestals; and scagliola and papier-mache articles.	1.7	89	99	2.0	91	97

See footnotes at end of table.



Code	Industry title and description	1954			1947		
		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
32	STONE, CLAY, AND GLASS PRODUCTS—Continued						
329	Miscellaneous nonmetallic mineral products—Continued						
3299	<u>Nonmetallic Mineral Products, N.E.C.</u> .....	4.5	84	94	2.6	86	76
	Establishments primarily engaged in manufacturing exfoliated vermicu- late; stucco; magnesite floor composition; sand-lime brick, block and tile; and other nonmetallic mineral products, n.e.c. Establishments primarily engaged in manufacturing sheet mica products, except radio parts, are also included in Industry 3299. Establishments primarily engaged in manufacturing sheet mica radio parts are classified in Industry 3661, Radios and Related Products.						
33	PRIMARY METAL INDUSTRIES						
	This major group includes establishments engaged in the smelting and refining of ferrous and nonferrous metals from ore, pig, or scrap; in the rolling, drawing, and alloying of ferrous and nonferrous metals; and in the manufacture of castings, forgings, and other basic products of ferrous and nonferrous metals.						
331	Blast furnaces and steel mills.....	530.1	96	92	545.7	(NA)	(NA)
3311	<u>Blast Furnaces</u> .....	36.5	100	100	36.9	100	100
	Establishments primarily engaged in manufacturing pig iron and blast- furnace ferrous alloys from ore and scrap. Establishments primarily en- gaged in manufacturing ferro and nonferrous additive alloys by electro- metallurgical processes are classified in Industry 3313, Electrometal- lurgical Products.						
3312	<u>Steel Works and Rolling Mills</u> .....	482.2	<sup>9</sup> 94	<sup>9</sup> 85	499.2	(NA)	(NA)
	Establishments primarily engaged in converting pig iron, scrap iron and scrap steel into steel and hot-rolling iron and steel into basic shapes such as plates, sheets, strips, rods, bars, and tubing. In many such establishments, the manufacturing processes are carried beyond the hot- rolling stage and into the production of steel forgings, drawn wire, welded and heavy-riveted pipe, cold-rolled sheet and strip, cold- finished bars and shapes, and wire nails and spikes.						
3313	<u>Electrometallurgical Products</u> .....	11.4	<sup>8</sup> 92	95	9.6	<sup>8</sup> 88	95
	Establishments primarily engaged in manufacturing ferro and nonferrous additive alloys by electrometallurgical processes, including high- percentage ferroalloys such as ferromanganese, ferrochromium, ferro- vanadium, and ferrotitanium, and high-percentage nonferrous additive alloys. Ferroalloys and other additives produced in blast furnaces are included in Industry 3311, Blast Furnaces.						
332	Iron and steel foundries.....	212.4	94	90	266.0	(NA)	(NA)
3321	<u>Gray-Iron Foundries</u> .....	133.9	94	87	173.8	92	87
	Establishments primarily engaged in manufacturing gray-iron castings, including cast gray-iron pipe and fittings. Establishments primarily engaged in manufacturing valves and fittings, except plumbers' brass goods and fittings are classified in Industry 3591, Valves and Fit- tings, Except Plumbing.						
3322	<u>Malleable-Iron Foundries</u> .....	23.4	86	89	29.9	88	91
	Establishments primarily engaged in manufacturing malleable-iron cast- ings.						
3323	<u>Steel Foundries</u> .....	55.1	88	87	62.3	89	83
	Establishments primarily engaged in manufacturing steel castings.						

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
33	PRIMARY METAL INDUSTRIES—Continued						
333	Primary nonferrous metals.....	54.5	91	94	43.1	(NA)	(NA)
3331	<u>Primary Copper</u> (Primary Smelting and Refining of Copper)..... Establishments primarily engaged in smelting copper from ore, and in re- fining copper by electrolytic or other processes. Important products of this industry include copper blocks, slabs, pigs, ingots, or refin- ery bars. Establishments engaged in rolling, drawing, and extruding primary copper are classified in Industry 3351, Copper Rolling and Drawing. Establishments primarily engaged in recovering copper from scrap are included in Industry 3341, Secondary Nonferrous Metals.	13.8	(10)	(10)	14.6	(10)	(10)
3332	<u>Primary Lead</u> (Primary Smelting and Refining of Lead)..... Establishments primarily engaged in smelting lead from ore, and in re- fining lead by any process. Important products of this industry in- clude lead blocks, slabs, pigs, or ingots. Establishments primarily engaged in rolling, drawing, or alloying lead are classified in Indus- try 3359, Rolling and Drawing, N.E.C. Establishments primarily engaged in producing lead from scrap, but which are not engaged in further fa- brication are classified in Industry 3341, Secondary Nonferrous Metals.	4.1	(10)	(10)	4.7	(10)	(10)
3333	<u>Primary Zinc</u> (Primary Smelting and Refining of Zinc)..... Establishments primarily engaged in smelting zinc from ore and in re- fining zinc by any process. Important products of this industry in- clude zinc block, slabs, spelter, pigs, or ingots. Establishments pri- marily engaged in rolling, drawing or alloying primary zinc are classi- fied in Industry 3359, Rolling and Drawing, N.E.C. Establishments pri- marily engaged in producing zinc from scrap but which are not engaged in further fabrication are classified in Industry 3341, Secondary Non- ferrous Metals.	10.5	87	91	12.4	(NA)	100
3334	<u>Primary Aluminum</u> (Primary Refining of Aluminum)..... Establishments primarily engaged in producing aluminum from ore or from alumina, and in refining aluminum by any process. Important products of this industry include aluminum blocks, slabs, pigs and ingots. Es- tablishments primarily engaged in rolling, drawing, and extruding pri- mary aluminum are classified in Industry 3352, Aluminum Rolling and Drawing. Establishments primarily engaged in producing aluminum from scrap but which are not engaged in further fabrication are classified in Industry 3341, Secondary Nonferrous Metals.	20.6	100	99	8.9	(NA)	100
3339	<u>Primary Nonferrous Metals, N.E.C.</u> (Primary Smelting and Refining of Nonfer- rous Metals, N.E.C.)..... Establishments primarily engaged in smelting and refining nonferrous metals, n.e.c., including gold, silver, platinum, iridium, cobalt, nickel, tin, antimony, and magnesium. Establishments primarily engaged in rolling, drawing, and alloying these nonferrous primary metals are classified in Industry 3359, Rolling and Drawing, N.E.C. Establish- ments primarily engaged in producing nonferrous metals from scrap but which are not engaged in further fabrication are classified in Indus- try 3341, Secondary Nonferrous Metals.	5.5	89	50	2.5	(NA)	16

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
33	PRIMARY METAL INDUSTRIES--Continued						
334	Secondary nonferrous metals.....	15.8	93	77	18.1	(NA)	(NA)
3341	<u>Secondary Nonferrous Metals</u> (Secondary Smelting and Refining of Nonferrous Metals and Alloys)..... Establishments primarily engaged in recovering nonferrous metals and alloys from new and used scrap and dross, but which are not engaged in further fabrication. This industry includes establishments engaged in both the recovery and alloying of precious metals, but does not include establishments primarily engaged in alloying primary copper (Industry 3351, Copper Rolling and Drawing), primary aluminum (Industry 3352, Aluminum Rolling and Drawing), or other nonferrous primary metals (Industry 3359, Rolling and Drawing, N.E.C.). Plants engaged in the recovery of tin through secondary smelting and refining are classified in this industry, but those primarily engaged in detinning cans by chemical processes without the production of tin are classified in Industry 2819 Inorganic Chemicals, N.E.C. Establishments primarily engaged in assembling, sorting, and breaking up scrap metal, without smelting and refining are classified in Trade Industries. Establishments primarily engaged in producing nonferrous metals from the ore are classified according to principal metal recovered: Industry 3331, Primary Copper; Industry 3332, Primary Lead; Industry 3333, Primary Zinc; Industry 3334, Primary Aluminum; and, Industry 3339, Primary Nonferrous Metals, N.E.C. Refined unalloyed nonferrous metals are also classified in Industry 3341, if the plant produces such metals from scrap rather than from ore.	15.8	93	64	18.1	(NA)	(NA)
335	Nonferrous rolling and drawing.....	89.1	96	92	88.8	(NA)	(NA)
3351	<u>Copper Rolling and Drawing</u> (Rolling, Drawing, and Alloying of Copper)..... Establishments primarily engaged in rolling, drawing, and extruding copper, brass, bronze, and other copper-base alloy basic shapes such as plates, sheets, strips, rods, wire and tubing. Establishments primarily engaged in producing primary copper alloys are classified in this industry, but establishments primarily engaged in recovering copper and its alloys from scrap or dross are classified in Industry 3341, Secondary Nonferrous Metals. Establishments primarily engaged in drawing wire from purchased copper and copper-base alloy rods are classified in Industry 3392, Wire Drawing, and those primarily engaged in manufacturing insulated wire from purchased copper wire are classified in Industry 3631, Insulated Wire and Cable.	41.9	95	90	53.9	(NA)	92
3352	<u>Aluminum Rolling and Drawing</u> (Rolling, Drawing, and Alloying of Aluminum).. Establishments primarily engaged in rolling, drawing, and extruding aluminum and aluminum-base alloy basic shapes such as plates, sheets, rods, wire and tubing. Other products included in this industry are: foil stock, pipe, rails, and slugs. Establishments primarily engaged in producing primary aluminum alloys are included in this industry, but establishments primarily engaged in recovering aluminum and its alloys from scrap or dross are classified in Industry 3341, Secondary Nonferrous Metals. Establishments primarily engaged in drawing wire from purchased aluminum and aluminum-base alloy rods are classified in Industry 3392, Wire Drawing.	36.8	92	93	27.4	(NA)	96

See footnotes at end of table.



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		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
33	PRIMARY METAL INDUSTRIES—Continued						
335	Nonferrous rolling and drawing—Continued						
3359	Rolling and Drawing, N.E.C. (Rolling, Drawing, and Alloying of Nonferrous Metals, N.E.C.).....	10.4	94	84	7.6	(NA)	94
	Establishments primarily engaged in rolling, drawing, and alloying nonferrous metals such as gold, silver, zinc, nickel, lead, and magnesium. The products of this industry are produced in the form of basic shapes such as sheets, strips, bars, rods, wire, and tubing. Important alloys produced in this industry include monel metal, white metal, antifric-tion metal, babbitt metal, type metal, solder, and alloys of gold, sil-ver, platinum, magnesium, rare-earth, and other nonferrous metals. Other products included in this industry are: extruded shapes, pipe and plate of nonferrous metals other than copper or aluminum. Estab-lishments primarily engaged in recovering nonferrous metals and alloys from scrap or dross are classified in Industry 3341, Secondary Nonfer-rous Metals; manufacturing gold, silver, tin, and other foils in Indus-try 3497, Metal Foil, and drawing wire from purchased nonferrous rods in Industry 3392, Wire Drawing. Establishments which primarily roll or draw precious metals to be used in the production of jewelry (stock shop products) are classified in Industry 3912, Jewelers' Findings.						
336	Nonferrous foundries.....	73.5	90	92	66.8	93	92
3361	Nonferrous Foundries.....	73.5	90	92	66.8	93	92
	Establishments primarily engaged in manufacturing castings and die castings of aluminum, brass, bronze, and other nonferrous metals and alloys. Establishments primarily engaged in manufacturing iron and steel castings are classified in Group 332, Iron and Steel Foundries. Nonferrous castings which have been machined and further processed are excluded from Industry 3361, and included as fabricated metal products or parts for machinery and equipment classified in other industries, e.g. brass and bronze relief valves are classified in Industry 3591, Valves and Fittings, Except Plumbing. The removal of gates, risers, sprues, and tumbling, dipping, or sandblasting do not constitute ma-chining or further processing and are, therefore, considered as a foundry operation.						
339	Primary metal industries, n.e.c.....	141.8	94	35	129.6	(NA)	(NA)
3391	Iron and Steel Forgings.....	39.8	88	73	36.7	95	77
	Establishments primarily engaged in manufacturing light and heavy board drop, steam hammer, upset, and press forgings with or without the use of dies. Rolling mills engaged in the production of iron and steel forgings are classified in Industry 3312, Steel Works and Rolling Mills.						

See footnotes at end of table.

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		All employ- ees <sup>1</sup>  (1,000)	Industry ratio (percent)		All employ- ees <sup>1</sup>  (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
33	PRIMARY METAL INDUSTRIES—Continued						
339	Primary metal industries, n.e.c.—Continued						
3392	Wire Drawing..... Establishments primarily engaged in drawing wire from purchased iron, steel, or nonferrous metal rods or bars, and which may be engaged in the further manufacture of products made from wire. Rolling mills engaged in the production of ferrous wire are classified in Industry 3312, Steel Works and Rolling Mills, and establishments primarily engaged in rolling, and drawing nonferrous metals in Group 335, Nonferrous Rolling and Drawing. Establishments primarily engaged in manufacturing insulated wire and cable from purchased wire are classified in Industry 3631, Insulated Wire and Cable, and other wire products from purchased wire in Group 348, Fabricated Wire Products. Establishments are classified in Industry 3392 when primarily engaged in drawing wire from purchased rods, rather than on the basis of products shipped. However, significantly different types of establishments are included in this industry. On the one hand are establishments drawing steel wire from purchased rods including establishments which further fabricate the drawn wire into wire rope and cable, woven wire products, fencing, nails and spikes, etc. Also included are wire drawing plants producing nonferrous wire, principally copper and aluminum, which may also process the wire into insulated wire and cable, woven wire products such as insect screening, etc.	54.9	95	<sup>5</sup> 39	55.0	96	<sup>5</sup> 37
3393	Welded and Heavy-Riveted Pipe..... Establishments primarily engaged in manufacturing welded pipe and tubes, and lock-joint and heavy-riveted pipe from purchased skelp. Rolling mills engaged in manufacturing welded and heavy-riveted pipe are classified in Industry 3312, Steel Works and Rolling Mills; establishments primarily engaged in manufacturing seamless pipe are also classified in Industry 3312 regardless of whether they melt the steel or produce the pipe from tube rounds received at the establishment. Establishments primarily engaged in manufacturing cast-iron pressure and soil pipe are classified in Industry 3321, Gray-Iron Foundries; and fabricated pipe and fittings made from purchased pipe in Industry 3592, Fabricated Pipe and Fittings.	22.1	91	<sup>5</sup> 30	15.7	92	<sup>5</sup> 26
3399	Primary Metal Industries, N.E.C..... Establishments primarily engaged in manufacturing flat bright cold-rolled strip (including razor-blade strip), cold-rolled sheets, cold-finished steel bars, nonferrous forgings, ferrous and nonferrous flakes and powders, and other primary metal products, n.e.c. Establishments primarily engaged in annealing and heat treating steel for the trade are also included in this industry. Rolling mills engaged in manufacturing cold-rolled steel sheet and strip and cold-finished steel bars and bar shapes from basic shapes produced in the same establishments are classified in Industry 3312, Steel Works and Rolling Mills.	25.1	92	<sup>5</sup> 20	22.1	94	<sup>5</sup> 26

See footnotes at end of table.

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			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
34	FABRICATED METAL PRODUCTS						
	<p>This major group includes establishments engaged in fabricating ferrous and nonferrous metal products such as tin cans and other tinware, hand tools, cutlery, general hardware, nonelectric heating apparatus, fabricated structural metal products, and a variety of metal products not elsewhere classified. Establishments primarily engaged in manufacturing small machine parts by powder metallurgy (Standard Industrial Classification Industry 3464) are classified according to principal products made rather than by process of manufacture. Certain important segments of the metal fabricating industries are classified in other major groups such as machinery in Major Group 35, Machinery, Except Electrical, and 36, Electrical Machinery; transportation equipment in Major Group 37, Transportation Equipment; professional, scientific and controlling instruments, watches and clocks in Major Group 38, Instruments and Related Products; and jewelry and silverware in Major Group 39, Miscellaneous Manufactures. The production of ferrous and nonferrous metals and their alloys, and basic products made of metal, are classified in Major Group 33, Primary Metal Industries. Heating, plumbing, air-conditioning, refrigeration, and roofing contractors incidentally manufacturing boiler shop or sheet metal products are classified in Nonmanufacturing Industries.</p>						
341	Tin cans and other tinware.....	55.2	98	99	46.8	97	99
3411	Tin Cans and Other Tinware.....	55.2	98	99	46.8	97	99
	<p>Establishments primarily engaged in manufacturing packers' cans, beer cans, general-line cans, oil containers, milk and ice-cream cans, and other tinware (except household and hospital cooking and kitchen utensils--Industry 3463, Metal Stampings) from purchased tin plate, terne plate, black plate, or enameled sheet metal.</p> <p>Establishments primarily engaged in manufacturing paperboard cans, with or without metal ends, are classified in Industry 2674, Fiber Cans, Tubes, Drums, etc.</p>						
342	Cutlery, tools, and hardware.....	143.7	87	90	154.5	(NA)	(NA)
3421	Cutlery.....	15.1	88	96	20.2	93	94
	<p>Establishments primarily engaged in manufacturing cutlery (except sterling silver, silver-plated cutlery and stainless steel--Industry 3914, Silverware and Plated Ware); scissors, clippers, except hair clippers, and razors (except electric), safety-razor blades, manicure implements, pocket knives, butcher knives, tinnerns' snips, and hedge clippers. Plants primarily engaged in manufacturing electric razors are included in Industry 3621, Electrical Appliances; animal hair clippers in Industry 3522, Farm Machinery (Except Tractors), and other hair clippers in Industry 3991, Beauty and Barber-Shop Equipment.</p>						
3422	Edge Tools.....	7.1	83	76	8.5	81	76
	<p>Establishments primarily engaged in manufacturing all kinds of edge tools, such as scythes, axes, planes, chisels, drawknives; and cutting dies for use in cutting cloth, paper, and leather. Establishments primarily engaged in manufacturing metal cutting dies are classified in Industry 3544, Special Dies and Tools, and cutting tool accessories for machine tools are classified in Industry 3545, Metalworking Machinery Attachments.</p>						

See footnotes at end of table.



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		All employ- ees <sup>1</sup>  (1,000)	Industry ratio (percent)		All employ- ees <sup>1</sup>  (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
34	FABRICATED METAL PRODUCTS—Continued						
342	Cutlery, tools, and hardware—Continued						
3423	<u>Hand Tools, N.E.C.</u> (Hand Tools, Except Edge Tools, Machine Tools, Files, and Saws)..... Establishments primarily engaged in manufacturing hand tools, such as hammers, wrenches, pliers, screw drivers, shovels, rakes, forks (garden, hay, etc.), carpenters' levels, metal mitre boxes, metal rules and rulers, soldering irons, trowels, carpenters' vises, and a variety of special tools used by repairmen, jewelers, stone-cutters and ironworkers. Establishments primarily engaged in manufacturing edge tools are classified in Industry 3422, Edge Tools; files in Industry 3424, Files; saws in Industry 3425, Hand Saws and Saw Blades; and power-driven hand tools and attachments and accessories for machine tools in Major Group 35, Machinery, Except Electrical.	23.4	86	83	35.4	81	85
3424	<u>Files</u> ..... Establishments primarily engaged in manufacturing and recutting files and rasps.	2.9	98	93	4.4	94	93
3425	<u>Hand Saws and Saw Blades</u> ..... Establishments primarily engaged in manufacturing hand saws, saw blades for hand and power-driven saws and saw accessories. Establishments primarily engaged in manufacturing power-driven sawing machines are classified in Major Group 35, Machinery, Except Electrical	6.9	71	90	8.4	78	87
3429	<u>Hardware, N.E.C.</u> ..... Establishments primarily engaged in manufacturing miscellaneous metal products usually termed "hardware" and not elsewhere classified. Important products of this industry include door locks, lock sets, and other builders' hardware; motor-vehicle and other transportation equipment hardware; hardware for caskets, furniture, cabinets, pianos and organs, saddlery, harness, trunks, and suitcases; locks and padlocks; vacuum bottles and jugs; andirons, casters, keys and key blanks. Establishments primarily engaged in manufacturing bolts and nuts are classified in Industry 3494, Bolts, Nuts, Washers, and Rivets, nails and spikes in Industry 3481, Nails and Spikes; cutlery in Industry 3421, Cutlery; hand tools in Industry 3423, Hand Tools, N.E.C., and pole-line hardware in Industry 3611, Wiring Devices and Supplies.	88.3	86	90	77.5	89	91
343	Heating and plumbing equipment.....	105.9	85	86	151.6	(NA)	(NA)
3431	<u>Plumbing Fixtures and Fittings</u> (Enameled-Iron and Metal Sanitary Ware and Other Plumbers' Supplies)..... Establishments primarily engaged in manufacturing enameled-iron, cast-iron, or pressed-metal sanitary ware, such as bathtubs, sinks, lavatories, and laundry tubs; and plumbers' brass goods and fittings such as faucets, spigots, and steam and water traps. Establishments primarily engaged in the manufacture of steam and waterline valves are classified in Industry 3591, Valves and Fittings, Except Plumbing, vitreous and semi-vitreous pottery sanitary ware in Industry 3261, Vitreous Plumbing Fixtures, and vitreous-enameled kitchen, household, and hospital ware in Industry 3461, Vitreous-Enameled Products.	30.6	87	89	34.7	90	92

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
34	FABRICATED METAL PRODUCTS—Continued						
343	Heating and plumbing equipment—Continued						
3439	Heating and Cooking Equipment, N.E.C. (Includes S.I.C. Industry 3432: Oil Burners, Domestic and Industrial and 3439, Heating and Cooking Apparatus, Except Electric, N.E.C.)..... Establishments primarily engaged in manufacturing heating and cooking equipment, n.e.c. Important products of this industry include stoves, ranges, water heaters, warm-air furnaces, domestic steam and hot-water heating apparatus, cast-iron and nonferrous radiators, oil burners, complete gas and oil boiler-burner units, furnace-burner units, boiler-stoker units, incinerators, unit heaters, gas burners, portable ovens, steam tables, and cafeteria food warming equipment. Establishments primarily engaged in manufacturing electric stoves and ranges are classified in Industry 3621, Electrical Appliances; incubators and brooders in Industry 3522, Farm Machinery (Except Tractors); and industrial furnaces and ovens in Industry 3567, Industrial Furnaces and Ovens. Boiler shops primarily engaged in the production of industrial, power, and marine boilers, smoke stacks, heavy tanks and other plate work are classified in Industry 3443, Boiler Shop Products.	75.3	84	85	116.8	86	86
344	Structural metal products.....	284.1	92	91	213.0	(NA)	(NA)
3441	Structural and Ornamental Work (Fabricated Structural Steel and Ornamental Metal Work)..... Establishments primarily engaged in manufacturing fabricated iron and steel or other metal for structural purposes, and architectural ornamental work of ferrous and nonferrous metals. Important products of this industry include fabricated structural steel shapes, stairs and staircases, fire escapes, grilles, railings, fences and posts, and portable metal buildings. Establishments primarily engaged in manufacturing metal doors, sash, frames, molding, and trim are classified in Industry 3442, Metal Doors, Sash and Trim, and fabrication work done by construction contractors at the site of construction is classified in Construction Industries.	116.3	89	88	79.1	86	88
3442	Metal Doors, Sash and Trim (Metal Doors, Sash, Frames, Molding and Trim)... Establishments primarily engaged in manufacturing ferrous and nonferrous metal and metal-covered doors and sash, window and door frames, store fronts, molding and trim.	43.3	87	89	23.3	84	87
3443	Boiler Shop Products..... Establishments primarily engaged in manufacturing industrial, power, and marine boilers, smoke stacks, heavy tanks, gas cylinders, and other boiler shop products; and fabricated plate work which involves the cutting, punching, bending, and shaping of steel plates for other industries, or for assembly on the job. Establishments primarily engaged in manufacturing domestic heating and cooking apparatus (including expansion tanks, range boilers, hot water storage tanks, and steel heating boilers) are classified in Industry 3439, Heating and Cooking Equipment, N.E.C.	74.4	82	81	68.2	80	80
3444	Sheet-Metal Work..... Establishments primarily engaged in manufacturing cornices, ventilators, skylights, gutters, and other types of sheet-metal work for buildings (not including fabrication work done by construction contractors at the place of construction), and manufacturing sheet-metal stovepipes, light tanks, bins, furnace casings, etc. Establishments primarily engaged in manufacturing heavy tanks from plate are classified in Industry 3443, Boiler Shop Products, and those primarily engaged in manufacturing domestic heating apparatus such as expansion tanks, range boilers, hot water storage tanks, and tanks for water heaters are classified in Industry 3439, Heating and Cooking Equipment, N.E.C. Establishments performing sheet metal manufacturing operations incidental to their installation or contracting business are classified in nonmanufacturing industries.	50.2	81	80	42.4	83	82

See footnotes at end of table.

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			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
34	FABRICATED METAL PRODUCTS—Continued						
346	Metal stamping and coating.....	183.8	85	(NA)	184.0	(NA)	(NA)
3461	Vitreous-Enameled Products.....	7.3	72	65	11.6	75	67
	Establishments primarily engaged in manufacturing vitreous-enameled kitchen, household, and hospital utensils; table tops; refrigerator, stove and washing machine parts; etc. Establishments primarily engaged in manufacturing enameled-iron plumbing fixtures are classified in Industry 3431, Plumbing Fixtures and Fittings, and those primarily engaged in manufacturing porcelain enameled signs are classified in Industry 3993, Signs and Advertising Displays.						
	Plants included in Industry 3461 differ from those classified in Industry 3465, Enameling and Lacquering, by the nature of the operations performed in the establishments. Industry 3461 establishments are primarily engaged in producing vitreous-enameled products from their own materials, although many of them produce some vitreous-enameled products from materials owned by others. On the other hand, establishments in Industry 3465 are primarily engaged in vitreous-enameling materials owned by others. Industry 3461 covers only vitreous (or porcelain) enameling while Industry 3465 covers both vitreous and other types of enameling (such as baked enameling).						
3463	Metal Stampings (Includes S.I.C. Industry: 3462, Automobile Stampings; and 3463, Stamped and Pressed Metal Products, Except Automobile Stampings)....	128.2	82	83	133.4	86	81
	Establishments primarily engaged in manufacturing metal stampings of ferrous or nonferrous metal such as bottle caps and tops; stamped kitchen, household, and hospital utensils; perforated metal; stamped and pressed machine parts; and automobile stampings such as fenders, tops, hub caps, body parts and trim. Establishments primarily engaged in stamping and spinning metal for the trade are also included in this industry; but establishments primarily engaged in manufacturing stamped vitreous-enameled products are classified in Industry 3461, Vitreous-Enameled Products, and those primarily engaged in assembling complete automobile bodies are classified in Group 371, Motor Vehicles and Equipment. Establishments primarily engaged in manufacturing cast aluminum utensils, including household pressure cookers, are classified in Industry 3361, Nonferrous Foundries; and plastic kitchen articles and commercial closures, in Industry 3971, Plastics Products, N.E.C.						
3465	Enameling and Lacquering (Enameling, Japanning, and Lacquering).....	5.5	(11)	(11)	4.0	(11)	(11)
	Establishments primarily engaged in enameling, japanning, and lacquering metal products for the trade. This industry also includes establishments primarily engaged in coating metals with plastic or resinous materials. Establishments in Industry 3465 are engaged primarily in enameling materials owned by others; establishments primarily engaged in manufacturing vitreous-enameled products from their own materials are included in Industry 3461, Vitreous-Enameled Products. In addition, Industry 3465 covers both vitreous and other types of enameling (such as baked enameling) whereas Industry 3461, Vitreous-Enameled Products, covers only vitreous-enameling.						
3466	Galvanizing (Galvanizing and Other Hot-Dip Coating).....	3.2	(11)	(11)	2.9	(11)	(11)
	Establishments primarily engaged in galvanizing iron and steel sheets or formed products; in coating iron sheets or formed products with aluminum, lead, or zinc; and in retinning cans and utensils. Most of the work done in this industry is done on materials owned by others. Rolling mills engaged in galvanizing, tinning, and other coating are classified in Industry 3312, Steel Works and Rolling Mills and establishments primarily engaged in manufacturing galvanized steel wire, from purchased metal rods or bars, are classified in Industry 3392, Wire Drawing.						

See footnotes at end of table.



Code	Industry title and description	1954			1947		
		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
34	FABRICATED METAL PRODUCTS—Continued						
346	Metal stamping and coating—Continued						
3467	Engraving on Metal..... Establishments primarily engaged in engraving, chasing, and etching jewelry, silverware, notarial seals, and other metal products for the trade, for purposes other than printing. Establishments primarily engaged in preparing metal lithographic plates and in printing from such media are classified in Industry 2761, Lithographing; establishments primarily engaged in engraving and etching steel and copper plates and in using these plates to print stationery, visiting cards, etc., are included in Industry 2792, Engraving and Plate Printing; and establishments primarily engaged in preparing photoengraved plates (half-tones and line-cuts) are classified in Industry 2793, Photoengraving.	3.6	(11)	(11)	3.5	(11)	(11)
3468	Plating and Polishing (Electroplating, Plating and Polishing)..... Establishments primarily engaged in all types of electroplating, plating, and metal-polishing work. Most of the work done in this industry is done on materials owned by other.	36.1	(11)	(11)	28.6	(11)	(11)
347	Lighting fixtures.....	45.1	90	91	46.9	90	89
3471	Lighting Fixtures..... Establishments primarily engaged in manufacturing lighting fixtures and equipment of any type, including electric and gas lighting fixtures, carbide, kerosene, and gasoline lamps, and metal reflectors and fittings. Other lighting equipment included in this industry are vehicular lighting equipment, flashlights, and lanterns. Establishments primarily engaged in producing glassware for lighting fixtures are classified in Major Group 32, Stone, Clay and Glass Products; electric light bulbs, tubes, and related light sources in Industry 3651, Electric Lamps (Bulbs); electric street traffic signals in Industry 3669, Communication Equipment, N.E.C.; and electric signs in Industry 3993, Signs and Advertising Displays.	45.1	90	91	46.9	90	89
348	Fabricated wire products.....	62.6	89	<sup>5</sup> 57	60.4	(NA)	(NA)
3481	Nails and Spikes..... Establishments primarily engaged in manufacturing wire and cut nails, brads, spikes, staples, and tacks from purchased wire and plate. Establishments primarily engaged in drawing wire from purchased rods and in manufacturing nails, brads, spikes and staples are classified in Industry 3392, Wire Drawing, and rolling mills manufacturing these products in Industry 3312, Steel Works and Rolling Mills.	2.7	89	<sup>5</sup> 19	3.4	82	<sup>5</sup> 18
3489	Wirework, N.E.C..... Establishments primarily engaged in manufacturing from purchased wire, ferrous and nonferrous wire products n.e.c. Important products of this industry include fencing, fly screening, cloth and netting, bare wire rope and cable, barbed wire, tire chains, bale ties, concrete-reinforcing wire and mesh, springs, coated welding wire, wire guards and partitions, wire grilles, trays and baskets, and kitchen wire goods. Establishments primarily engaged in manufacturing assembled wire bed springs are classified in Industry 2515, Mattresses, and Bed-springs; establishments primarily engaged in manufacturing insulated wire from purchased wire are classified in Industry 3631, Insulated Wire and Cable; establishments engaged in drawing wire from purchased rods and in manufacturing wire products are classified in Industry 3392, Wire Drawing.	59.9	89	<sup>5</sup> 63	57.0	91	<sup>5</sup> 60

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
34	FABRICATED METAL PRODUCTS—Continued						
349	Metal products, n.e.c.....	138.9	91	81	116.1	(NA)	(NA)
3491	<u>Metal Barrels, Drums and Pails</u> (Metal Shipping Barrels, Drums, Kegs and Pails) Establishments primarily engaged in manufacturing ferrous and nonferrous shipping barrels, drums, kegs, and pails. Establishments engaged in manufacturing packer's cans and fluid milk shipping containers are classified in Industry 3411, Tin Cans and Other Tinware; steel gas cylinders in Industry 3443, Boiler Shop Products; and garbage and ash cans in Industry 3463, Metal Stampings. Establishments primarily engaged in manufacturing fiber containers are classified in Industry 2674, Fiber Cans, Tubes, Drums, etc. Establishments primarily engaged in reconditioning metal barrels, drums, and pails are included in Trade Industries.	10.6	82	86	10.9	83	83
3492	<u>Safes and Vaults</u> ..... Establishments primarily engaged in manufacturing safes and vaults (except concrete grave vaults, Industry 3271, Concrete Products), vault doors and linings, safe-deposit boxes and chests, and safe locks. Establishments primarily engaged in manufacturing metal filing cabinets are classified in Industry 2522, Metal Office Furniture.	3.4	87	97	3.8	98	98
3493	<u>Steel Springs</u> ..... Establishments primarily engaged in manufacturing leaf springs, hot-wound springs, coiled flat and torsion bar steel springs. Establishments primarily engaged in manufacturing wire springs are classified in Industry 3489, Wirework, N.E.C., and rolling mills manufacturing steel springs in Industry 3312, Steel Works and Rolling Mills. Important products included in Industry 3493 are: helical and leaf springs for automobiles, locomotive, railway cars, etc.; flat springs made of sheet or strip; and torsion bar springs.	7.1	84	74	7.8	89	68
3494	<u>Bolts, Nuts, Washers and Rivets</u> ..... Establishments primarily engaged in manufacturing bolts, nuts, washers, rivets, turnbuckles, wood screws and toggle bolts. Rolling mills engaged in manufacturing similar products are classified in Industry 3312, Steel Works and Rolling Mills; establishments primarily engaged in manufacturing screw-machine products are classified in Industry 3495, Screw-Machine Products; and plants primarily engaged in manufacturing such notions as eyelets, slide and snap fasteners, hooks and eyes are included in Industry 3964, Needles, Pins and Fasteners. Plants included in Industry 3494 in general are engaged in the manufacture of bolts, nuts, screws, and rivets of standard types and sizes on heading, threading, and nut forming machines. These establishments may be also engaged in the production of special industrial fasteners which require special or added operations or the use of special tools and fixtures. These items include bolts, nuts, screws, etc., of non-standard types and sizes and special fasteners made by stamping and other forming processes. To a lesser extent these plants manufacture standard type bolts, nuts, screws, etc., on automotive and hand operated screw machines.	53.7	91	89	49.2	92	86
3495	<u>Screw-Machine Products</u> ..... Establishments primarily engaged in manufacturing automatic or hand operated screw-machine products from rod, bar, or tube stock of metal, fiber, plastics or other material. Establishments primarily engaged in manufacturing standard bolts, nuts, rivets, screws and other industrial fasteners on screw machines, and those primarily engaged in manufacturing bolts, nuts, etc., on headers, threaders, and nut forming machines are classified in Industry 3494, Bolts, Nuts, Washers, and Rivets. Industry 3495 includes establishments producing a wide variety of items such as small machinery parts, etc., on hand operated and automatic screw machines from rod, bar and tube stock and from castings and forgings. These products are produced almost entirely on a job or order basis.	35.0	93	82	28.6	94	86

See footnotes at end of table.

Code	Industry title and description	1954			1947		
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			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
34	FABRICATED METAL PRODUCTS—Continued						
349	Metal products, n.e.c.—Continued						
3496	<u>Collapsible Tubes</u> ..... Establishments primarily engaged in manufacturing collapsible tubes made of aluminum, tin, and other materials for use as containers for toilet preparations, adhesives, etc. Metal caps, applicators, screw eyes, and spouts for collapsible tubes are also included in this industry; plastic caps are classified in Industry 3971, Plastic Products, N.E.C.	4.3	93	100	3.9	91	100
3497	<u>Metal Foil (Gold, Silver, Tin, Aluminum, and Other Foil)</u> ..... Establishments primarily engaged in manufacturing aluminum, gold, silver, tin, and other foil and leaf, including converted metal foil.	6.7	92	80	4.3	97	76
3499	<u>Fabricated Metal Products, N.E.C. (Fabricated Metal Products, N.E.C.)</u> ..... Establishments primarily engaged in manufacturing metal products not elsewhere classified, including metal novelties and specialties. Specific products of this industry include ammunition boxes, metal strapping, aluminum giftware (hammered), metal bookends, ladders, and fabricated railroad track equipment such as switches, crossings, etc. Establishments primarily engaged in manufacturing castings or forgings are classified in Major Group 33, Primary Metal Industries; hardware in Industry 3429, Hardware, N.E.C.; metal stampings in Industry 3463, Metal Stampings; and machine and equipment parts in Major Group 35, Machinery, Except Electrical, and Major Group 36, Electrical Machinery.	18.1	85	53	7.6	90	60
35	MACHINERY, EXCEPT ELECTRICAL  This major group includes establishments engaged in manufacturing machinery and prime movers other than electrical equipment which is in Major Group 36, Electrical Machinery. Machines powered by built-in or detachable electric motors ordinarily are included in this major group with the exception of certain types of small electrical household appliances which are in Major Group 36, Electrical Machinery. Portable tools, both electric and pneumatic powered, are included in this major group, but hand tools are classified in Major Group 34, Fabricated Metal Products.						
351	Engines and turbines.....	82.0	88	84	87.7	(NA)	(NA)
3511	<u>Steam Engines and Turbines (Steam Engines, Turbines, and Water Wheels)</u> ..... Establishments primarily engaged in manufacturing steam engines, steam turbines, water wheels, water turbines, and turbo-generators. Establishments primarily engaged in building or rebuilding locomotives are classified in Industry 3741, Locomotives and Parts. Establishments primarily engaged in manufacturing gas turbines (except aircraft) and parts are classified in Industry 3519, Internal Combustion Engines; motor vehicle engines in Industry 3717, Motor Vehicles and Parts; and aircraft engines in Industry 3722, Aircraft Engines.	30.2	88	87	22.2	82	81
3519	<u>Internal Combustion Engines (Diesel and Semi-Diesel Engines; and Other Internal-Combustion Engines, N.E.C.)</u> ..... Establishments primarily engaged in manufacturing Diesel or semi-Diesel engines, and other internal combustion engines, n.e.c., for stationary, marine, traction, or other uses. This industry also includes establishments primarily engaged in manufacturing outboard motors, gas turbines (except aircraft), and parts for internal combustion engines, except aircraft and motor vehicles. Establishments primarily engaged in manufacturing aircraft engines (including rocket engines) are classified in Industry 3722, Aircraft Engines, and automobile engines, except Diesel automotive engines, in Industry 3717, Motor Vehicles and Parts.	51.8	87	83	65.5	81	78

See footnotes at end of table.



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			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
35	MACHINERY, EXCEPT ELECTRICAL—Continued						
352	Tractors and farm machinery.....	139.1	87	92	171.5	(NA)	(NA)
3521	Tractors.....	64.7	85	93	77.3	83	95
	Establishments primarily engaged in manufacturing wheel-type and track-laying tractors, garden tractors, and parts and attachments for tractors. Establishments primarily engaged in manufacturing industrial trucks, tractors, and trailers used for handling materials in industrial plants, depots, and docks are classified in Industry 3565, Industrial Trucks and Tractors; and truck tractors for highway use in Industry 3717, Motor Vehicles and Parts.						
3522	Farm Machinery, Except Tractors (Agricultural Machinery, Except Tractors). Establishments primarily engaged in manufacturing agricultural machinery and equipment (except tractors) for use in the preparation or maintenance of the soil, planting and harvesting of the crop, preparing crops for market, or for use in performing other agricultural operations and processes. Important products of this industry are: plows and listers, harrows, rollers, pulverizers, stalk cutters, planters, seeders, spreaders, weed burners, sprayers and dusters, combines, haying machinery, lawn mowers, cream separators and butter churns (farm-type), cultivators and weeders, threshers, feed grinders, incubators, barn and barnyard equipment, and parts and attachments for farm machinery. Establishments primarily engaged in manufacturing agricultural hand tools are classified in Group 342, Cutlery, Tools, and Hardware. Establishments primarily engaged in manufacturing industrial food products machinery, including butter churns, cream separators and grain-mill machinery are classified in Industry 3551, Food-Products Machinery; cotton gins and other cotton ginning machinery and equipment in Industry 3559, Special-Industry Machinery, N.E.C.; farm elevators and parts in Industry 3563, Conveyors; and, immersion type farm and dairy milk coolers (mechanically refrigerated) in Industry 3585, Refrigeration Machinery.	74.4	89	90	94.1	89	92
353	Construction and mining machinery.....	109.4	87	85	113.9	(NA)	(NA)
3531	Construction and Mining Machinery (Construction, Mining and Similar Machinery, Except Oil-Field Machinery and Tools).....	75.7	86	81	84.7	85	82
	Establishments primarily engaged in manufacturing heavy machinery and equipment used by the construction and mining industries for portable or fixed-plant operation, dredging, excavating, road and airport construction, ore and rock crushing, screening or washing, ore dressing or concentration. Important products of this industry include cranes (except overhead traveling), hoists, winches, draglines and shovels, mixers and pavers, coal cutting machines, crushers, screening and washing plants, ditchers and trenchers, graders, rollers, tractor-mounted construction machinery, trucks (off-highway type), railway maintenance-of-way equipment, mining drills, and construction and mining machinery parts and attachments. Establishments primarily engaged in manufacturing well-drilling machinery are classified in Industry 3532, Oil-field Machinery and Tools; coal and ore conveyors in Industry 3563, Conveyors; tracklaying and 2- and 4-wheel contractors' tractors in Industry 3521, Tractors.						
3532	Oil-Field Machinery and Tools.....	33.7	89	93	29.2	88	91
	Establishments primarily engaged in manufacturing machinery and tools for use in oil- and gas-fields, or for drilling water wells. Important products of this industry include oil- and gas-field surface and sub-surface drilling equipment; cementing, floating, guiding, and shoe equipment; portable drilling rigs; oil- and gas-field derricks, sub-structures and assemblies; well surveying machinery and equipment; flowing well equipment; and, oil and gas separating, metering, and treating equipment. Establishments primarily engaged in manufacturing oil-well and oil-field pumps are classified in Industry 3561, Pumps and Compressors.						

See footnotes at end of table.

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		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
35	MACHINERY, EXCEPT ELECTRICAL—Continued						
354	Metalworking machinery.....	262.7	92	87	220.9	(NA)	(NA)
3541	<u>Machine Tools</u> .....	81.0	84	93	70.0	77	86
	Establishments primarily engaged in manufacturing power-driven machine tools that shape metal by grinding or progressively cutting away chips. Important products of this industry include boring, broaching, drilling, gear-cutting and finishing, grinding, milling, and planing machines; lathes, shapers, and slotters; honing and lapping, polishing and buffing, sawing and cutting-off, contour sawing and filing, tapping, threading, and rifling machines; metalworking or primarily metalworking machine tools designed principally for home workshops, garages, and service shops; and replacement and repair parts for machine tools. The rebuilding of machine tools is also included in this industry. Establishments primarily engaged in manufacturing portable power-driven hand tools and machinery for the shaping, pressing, or forging of metal, where the shaping action of such machines is not dependent upon a cutting tool, are classified in Industry 3542, Metalworking Machinery; special dies and tools, die sets, jigs, and fixtures in Industry 3544, Special Dies and Tools; and machinists' tools in Industry 3545, Metalworking Machinery Attachments. Establishments primarily engaged in manufacturing portable power-driven hand tools are classified in Industry 3542, Metalworking Machinery; and woodworking or woodworking-type machines, except hand tools, in Industry 3553, Woodworking Machinery.						
3542	<u>Metalworking Machinery</u> (Metalworking Machinery, Except Machine Tools).....	59.5	85	85	55.0	87	87
	Establishments primarily engaged in manufacturing machinery for shaping, pressing, forging, or bending metal, where the shaping action of such machines is not dependent upon a cutting tool. Important products of this industry include bending machines; can forming and soldering, and other sheet-metalworking machinery; die casting machines; forging machines, such as drop hammers (impression die), forging hammers (flat die), forging presses, bulldozers, and upsetters; portable power-driven metalworking tools, and flexible-shaft machines; presses (forming, stamping, and punch); riveting machines (not portable); rod and wire forming and fabricating machines; rolling mill machinery and equipment; shears; spring winding and forming machines; acetylene welding and cutting apparatus; wiredrawing machines; and replacement and repair parts. This industry also includes establishments primarily engaged in producing portable power-driven hand tools designed for use with both metal and wood. Establishments primarily engaged in manufacturing electrical welding apparatus are classified in Industry 3617, Electrical Welding Apparatus.						
3544	<u>Special Dies and Tools</u> (Special Dies and Tools, Die Sets, Jigs and Fixtures)	77.4	86	69	(NA)	( <sup>6</sup> )	( <sup>6</sup> )
	Establishments commonly known as contract tool and die shops and primarily engaged in manufacturing, on a job or order basis, special tools and fixtures for use with machine tools, hammers, die-casting machines, and presses. The products of establishments classified in this industry include a wide variety of special toolings, such as dies; punches; die sets and components, and sub-presses; jigs and fixtures; and special checking devices. Establishments primarily engaged in manufacturing cutting dies, except dies for cutting metal, are classified in Industry 3422, Edge Tools, and hand tools (except power-driven) in Industry 3423, Hand Tools, N.E.C.						

See footnotes at end of table.



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		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
35	MACHINERY, EXCEPT ELECTRICAL--Continued						
354	Metalworking machinery--Continued						
3545	Metalworking Machinery Attachments (Attachments and Accessories for Machine Tools and for Other Metalworking Machines, N.E.C.).....	44.9	87	74	(NA)	(6)	(6)
	Establishments primarily engaged in manufacturing cutting tools and other attachments and accessories for machine tools and for other metalworking machinery, n.e.c., and precision measuring tools. Important products of this industry include: (1) attachments for lathes, boring, drilling, and milling machines, and for other machine tools; arbors and collars; broaches; collets or sockets; (2) balancing machines; tools for screw and automatic machines; counterbores; countersinks; countersink-drill combinations; drills; cutters; reamers; threading tools (tape, dies, and pipe-threading tools); and other cutting tools and tool holders; and (3) precision measuring tools (micrometers and verniers); gauges (plug, ring, snap, and thread); and other measuring tools. Establishments primarily engaged in manufacturing hand tools (except power-driven) are classified in Group 342, Cutlery, Tools, and Hardware, and dies, jigs, and fixtures in Industry 3544, Special Dies and Tools.						
355	Special-industry machinery, n.e.c.....	165.8	87	85	207.3	(NA)	(NA)
3551	Food-Products Machinery.....	33.2	84	86	36.9	89	82
	Establishments primarily engaged in manufacturing machinery for use by the food-products and beverage manufacturing industries in the preparation, canning, or packaging of food products. Important products of this industry include bakers' machinery and equipment (bake ovens, bread-slicing machines, wrapping machines, and dough mixers); canning machinery; chocolate and confectionery machinery; dairy products machinery and equipment, including fluid milk processing machinery, butter, cheese and ice cream machinery, condensed and evaporated milk machinery, and related equipment; flour-mill and grain-mill machinery; packing house machinery; sugar-mill machinery; coffee-roasting and grinding machines, food choppers, grinders, mixers, and slicers; peanut roasters; popcorn machines; and parts and attachments. Establishments primarily engaged in manufacturing refrigeration machinery are classified in Industry 3585, Refrigeration Machinery; household electrical appliances such as mixers, cookers, etc., are classified in Industry 3621, Electrical Appliances.						
3552	Textile Machinery.....	36.6	89	93	53.6	95	93
	Establishments primarily engaged in manufacturing machinery for the textile industries. Important products of this industry include: (1) fiber-to-fabric machinery, such as picker, carding, combing, garnetting and spinning machines, doubling and twisting frames, winders, and beaming, warping, and slashing machines; (2) fabric machinery, such as knitting and braiding machines, looms for weaving, and Jacquard, lace, net embroidery, cordage, and rope machines; (3) machinery for bleaching, dyeing, printing, mercerizing, finishing, and drying stock, yarn, and cloth; and (4) extra parts, attachments, and accessories, not elsewhere classified. Establishments primarily engaged in manufacturing domestic or industrial sewing machines are classified in Industry 3583, Sewing Machines.						
3553	Woodworking Machinery.....	12.0	84	81	16.2	78	77
	Establishments primarily engaged in manufacturing machinery for sawmills, planing mills, cabinet and furniture makers, pattern makers, and veneer workers; small woodworking machinery for home, shop, and professional craftsmen; and portable electric woodworking tools. Establishments primarily engaged in manufacturing hand tools such as planes, axes, drawknives, and hand saws are classified in Group 342, Cutlery, Tools, and Hardware. Machines designed for use on both wood or metal, such as portable power-driven hand tools are classified in Industry 3542, Metalworking Machinery, and machines designed primarily for use on metal in home workshops, garages and service shops are classified in Industry 3541, Machine Tools.						

See footnotes at end of table.



Code	Industry title and description	1954			1947		
		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
35	MACHINERY, EXCEPT ELECTRICAL—Continued						
355	Special-industry machinery, n.e.c.—Continued						
3554	<u>Paper-Industries Machinery</u> .....	15.0	85	86	17.1	85	89
	Establishments primarily engaged in manufacturing machinery for the paper-pulp, paper, and paper-products industries. Establishments primarily engaged in rebuilding pulp- and paper-industries machinery are also included in this industry. Establishments primarily engaged in manufacturing printing-trades machinery are classified in Industry 3555, Printing-Trades Machinery.						
3555	<u>Printing-Trades Machinery</u> (Printing-Trades Machinery and Equipment).....	22.0	95	90	24.9	95	94
	Establishments primarily engaged in manufacturing machinery and equipment used by the printing and bookbinding trades. Important products of this industry include bookbinding and photoengraving machinery; printers' machinery such as presses, typesetting, typefounding, electrotyping, and stereotyping machines; engravers' equipment (metal plates, wood blocks, and lithographic stones); printers' rollers, rules, sticks, blocks, and type cases; and type, leads, and slugs. Establishments primarily engaged in manufacturing textile-printing machinery are classified in Industry 3552, Textile Machinery.						
3559	<u>Special-Industry Machinery, N.E.C.</u> .....	47.0	81	73	58.6	80	78
	Establishments primarily engaged in manufacturing special-industry machinery, n.e.c., such as smelting and refining equipment, cement-making, clay-working, glass-making, cotton-ginning, hat-making, incandescent lamp-making, leather-working, paint-making, rubber-working, tobacco-working, cigar- and cigarette-making, shoe-making, and stone-working machinery.						
356	General industrial machinery.....	223.9	85	81	219.0	(NA)	(NA)
3561	<u>Pumps and Compressors</u> (Pumps, Air and Gas Compressors, and Pumping Equipment).....	60.3	82	78	56.1	81	85
	Establishments primarily engaged in manufacturing pumps, compressors, and pumping equipment for general industrial use. Important products of this industry include hand- and power-driven pumps, pumps for fluid power systems, air compressors, gas compressors (except ice-making, refrigerating, and air-conditioning units—Industry 3585), spraying and dusting units for metals, paints, and chemicals, and parts and attachments for such equipment. Establishments primarily engaged in manufacturing measuring-and-dispensing pumps for gasoline service station use are classified in Industry 3586, Measuring and Dispensing Pumps; fuel pumps for motor vehicles in Industry 3717, Motor Vehicles, and Parts; and agricultural spray pumps in Industry 3522, Farm Machinery (Except Tractors).						
3562	<u>Elevators and Escalators</u> .....	10.3	87	89	10.2	92	91
	Establishments primarily engaged in manufacturing passenger or freight elevators, automobile lifts, dumbwaiters, and escalators. Establishments primarily engaged in manufacturing commercial conveyor systems and equipment, including farm elevators, are classified in Industry 3563, Conveyors; and portable elevators (stackers) in Industry 3565, Industrial Trucks and Tractors.						
3563	<u>Conveyors</u> (Conveyors and Conveying Equipment).....	32.4	77	80	24.6	78	80
	Establishments primarily engaged in manufacturing conveyors and conveying equipment for installation in factories, warehouses, mines, and other industrial and commercial establishments. Important products of this industry include: overhead traveling cranes, monorail systems, farm elevators, gravity and power conveyors, underground mine conveyors, and parts, attachments, and accessories. Establishments primarily engaged in manufacturing passenger or freight elevators, dumbwaiters, and escalators are classified in Industry 3562, Elevators and Escalators; portable elevators (stackers) in Industry 3565, Industrial Trucks and Tractors; and cranes, hoists, and construction power cranes in Industry 3531, Construction and Mining Machinery.						

See footnotes at end of table.

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		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
35	MACHINERY, EXCEPT ELECTRICAL—Continued						
356	General industrial machinery—Continued						
3564	<u>Blowers and Fans</u> (Blowers, Exhaust and Ventilating Fans)..... Establishments primarily engaged in manufacturing blowers, and exhaust, and ventilating fans for general industrial, commercial, and household use, including attic fans, blower-filter units (furnace blowers), fans for mechanical draft, air washers, dust-collection, and air-purification equipment. Establishments primarily engaged in manufacturing complete air-conditioning units are classified in Industry 3585, Refrigeration Machinery, and circulating fans for use on desks, pedestals, or wall brackets in Industry 3621, Electric Appliances.	18.1	83	76	14.8	75	78
3565	<u>Industrial Trucks and Tractors</u> (Industrial Trucks, Tractors, Trailers, and Stackers)..... Establishments primarily engaged in manufacturing industrial trucks, tractors, trailers, stackers, hand lift trucks, hand trailers, dollies, and metal pallets and skids used for handling materials on floors and paved surfaces in and around industrial plants, depots, docks, and terminals. Establishments primarily engaged in manufacturing motor vehicles and motor-vehicle trailers are classified in Group 371, Motor Vehicles and Equipment; wheel-type and track-laying tractors in Industry 3521, Tractors; mining cars in Industry 3531, Construction and Mining Machinery; wood pallets and skids in Industry 2499, Wood Products, N.E.C.; and portable farm elevators in Industry 3563, Conveyors.	15.8	88	83	13.9	84	84
3566	<u>Power-Transmission Equipment</u> (Mechanical Power-transmission Equipment, Except Ball and Roller Bearings)..... Establishments primarily engaged in manufacturing bearings (except ball and roller) and mechanical power-transmission equipment, such as chain drives, variable speed drives, speed reducers, gears, clutches (mechanical, hydraulic, or magnetic) shafts and parts for such equipment. Establishments primarily engaged in producing motor vehicle power-transmission equipment are classified in Industry 3717, Motor Vehicles and Parts; ball and roller bearings in Industry 3593, Ball and Roller Bearings; forged shafts in Industry 3391, Iron and Steel Forgings, and gears and drive chains for motorcycles and bicycles in Industry 3751, Motorcycles and Bicycles.	49.6	88	86	54.0	87	84
3567	<u>Industrial Furnaces and Ovens</u> ..... Establishments primarily engaged in manufacturing electric, coal, gas, oil, and other fuel-fired or steam-heated industrial furnaces and ovens. Important products of this industry include metal-processing and heat-treating furnaces; calcining, cement, and ceramic kilns; lumber-drying kilns; distillation ovens; cremating ovens; paint-baking and lumber-drying ovens; sherardizing ovens; lehrs; and parts and attachments for industrial furnaces and ovens. Establishments primarily engaged in manufacturing domestic and commercial furnaces and ovens, except electric, are classified in Industry 3439, Heating and Cooking Apparatus, N.E.C.; bakery ovens in Industry 3551, Food-Products Machinery; domestic and commercial electric ovens in Industry 3621, Electrical Appliances; and dental laboratory furnaces in Industry 3843, Dental Equipment and Supplies. Establishments primarily engaged in engineering or constructing industrial furnaces or ovens but maintaining no manufacturing facilities are not included in Manufacturing Industries.	8.4	84	84	6.4	86	74
3568	<u>Mechanical Stokers</u> (Mechanical Stokers, Domestic and Industrial)..... Establishments primarily engaged in manufacturing domestic and industrial stokers for anthracite and bituminous coal, either hopper fed, or with a conveyor for direct feed from the bin.	1.1	74	60	4.1	71	74

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
35	MACHINERY, EXCEPT ELECTRICAL—Continued						
356	General industrial machinery—Continued						
3569	<u>General Industrial Machinery, N.E.C.</u> (General Industrial Machinery and Equipment, Not Elsewhere Classified)..... Establishments primarily engaged in manufacturing machinery and equipment for general industrial use and for which no special classification is provided. Machine shops primarily engaged in producing machine and equipment parts usually on a job or order basis are classified in Industry 3599, Machine Shops, and machine shops engaged exclusively in repair work are classified as Service Industries. Establishments primarily engaged in manufacturing heat exchanger equipment for air conditioning and commercial refrigeration are classified in Industry 3585, Refrigeration Machinery. Industry 3569 covers a wide range of heterogeneous products such as heat exchangers, steam condensers, filters and strainers for internal combustion engines (except automobile), hydraulic jacks, packaging and wrapping machines (except food and tobacco), centrifugals and separators (except cream), gas generating equipment, brake burnishing and washing machines, ice crusher machinery, fire hose (except rubber), fire hose dryers and racks, automatic sprinkler systems, general industrial labeling machines, and magnetic separation equipment.	27.9	80	66	34.8	78	75
357	Office and store machines.....	101.3	80	96	97.8	(NA)	(NA)
3571	<u>Computing and Related Machines</u> (Computing Machines and Cash Registers)..... Establishments primarily engaged in manufacturing adding, calculating, tabulating, and bookkeeping machines; card-punching, sorting, and tabulating machines; and cash registers. Establishments primarily engaged in manufacturing electronic computing machines, coin and currency handling machines, ticket-counting machines, vest pocket and other simple adding or calculating devices, and rebuilt computing machines and cash-registers are also included in this industry. Establishments primarily engaged in manufacturing typewriters, and billing machines without accounting registers, are classified in Industry 3572; Typewriters; office duplicating machines and devices, and autographic registers, in Industry 3579, Office and Store Machines, N.E.C.	56.7	78	93	45.6	94	94
3572	<u>Typewriters</u> ..... Establishments primarily engaged in manufacturing typewriters and parts. Important products of this industry include electric and nonelectric standard typewriters, and specialized typewriters and typewriter-principle machines, such as continuous form-handling machines, billing machines without accounting registers, office composing machines and stencil-cutting typewriters.	18.4	80	97	26.6	1490	1497
3576	<u>Scales and Balances</u> ..... Establishments primarily engaged in manufacturing weighing devices of all types, including those with automatic computing mechanisms and coin-operated scales.	5.4	90	96	6.5	91	92

See footnotes at end of table.



Code	Industry title and description	1954			1947		
		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
35	MACHINERY, EXCEPT ELECTRICAL—Continued						
357	Office and store machines—Continued						
3579	Office and Store Machines, N.E.C. (Includes S.I.C. Industry 3575, Vending, Amusement, and Other Coin Operated Machines and 3579, Office and Store Machines and Devices, N.E.C.).....	20.8	79	90	19.1	89	90
	Establishments primarily engaged in manufacturing store and office machines and devices, n.e.c., such as mimeograph and other duplication devices; addressing and milling machines; check-writing, signing, and canceling machines; perforators and other protective devices; auto-graphic registers and postage meters; automatic merchandising machines (except refrigerated, Industry 3585, Refrigeration Machinery); and, amusement and other coin-operated machines and coin-operated mechanisms for use in such devices. Establishments primarily engaged in manufacturing computing machines and cash registers are classified in Industry 3571, Computing and Related Machines; typewriters in Industry 3572, Typewriters; photocopy equipment and coin-operated photographic apparatus in Industry 3861, Photographic Equipment and Supplies; coin-operated scales and balances in Industry 3576, Scales and Balances; coin-operated phonographs and wire and tape recorders in Industry 3661, Radio and Related Products; clocks and timing mechanisms, except time recording and time stamping machines, in Industry 3871, Watches and Clocks.						
358	Service and household machines.....	196.5	85	90	219.6	(NA)	(NA)
3581	Domestic Laundry Equipment.....	22.1	93	81	28.4	90	91
	Establishments primarily engaged in manufacturing household type laundry equipment such as washing machines, wringers, driers, and ironers. Establishments primarily engaged in manufacturing commercial laundry equipment are classified in Industry 3582, Laundry and Dry-cleaning Machinery.						
3582	Laundry and Dry-Cleaning Machinery (Commercial Laundry, Dry-Cleaning, and Pressing Machines).....	6.5	83	93	9.1	94	94
	Establishments primarily engaged in manufacturing laundry and dry-cleaning equipment and pressing machines for commercial and industrial use. Important products of this industry include commercial washers, extractors, combination washers and extractors, drying tumblers, ironers, finishing presses, napping machines, stills and filters for dry-cleaning machines, and other laundry and dry-cleaning equipment, parts, accessories, and attachments. Establishments primarily engaged in manufacturing domestic laundry equipment are classified in Industry 3581, Domestic Laundry Equipment.						
3583	Sewing Machines.....	12.4	91	94	15.3	95	94
	Establishments primarily engaged in manufacturing sewing machines for domestic and industrial use, and sewing machine parts. Establishments primarily engaged in manufacturing sewing machine cases and cabinets are classified in Industry 2511, Wood House Furniture, Not Upholstered; shoe sole stitching machines in Industry 3559, Special Industry Machinery, N.E.C.; and sewing machine needles in Industry 3964, Needles, Pins, and Fasteners.						
3584	Vacuum Cleaners.....	8.4	80	88	14.9	84	88
	Establishments primarily engaged in manufacturing vacuum cleaners for domestic and industrial use and vacuum cleaner parts and attachments.						

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees <sup>1</sup>  (1,000)	Industry ratio (percent)		All employ- ees <sup>1</sup>  (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
35	MACHINERY, EXCEPT ELECTRICAL—Continued						
358	Service and household machines —Continued						
3585	<u>Refrigeration Machinery</u> (Refrigerators, Refrigeration Machinery and Com- plete Air-conditioning Units).....	128.3	(10)	(10)	128.7	(10)	(10)
	Establishments primarily engaged in manufacturing mechanical and absorp- tion refrigerators for commercial, industrial, and household use, refrigeration machinery, ice-making machinery and equipment, refrigera- ted showcases and cabinets, range-refrigerator combinations, home and farm freezers, drinking-water coolers, mechanically refrigerated farm and dairy milk coolers, bottled beverage coolers, refrigeration com- pressors and compressor units, condensing units, refrigerated automa- tic merchandising machines, dehumidifiers, factory assembled water- cooling towers, automobile air conditioners, evaporative coolers, and complete air-conditioning units for domestic, commercial, and industri- al use.						
	Establishments primarily engaged in manufacturing farm milk coolers, ex- cept mechanically refrigerated, are classified in Industry 3522, Farm Machinery (Except Tractors); compressors, except refrigeration, in Industry 3561, Pumps and Compressors; and soda fountains and beer- dispensing equipment in Industry 3997, Soda-Fountain and Bar Equipment.						
	Establishments primarily engaged in the construction or installation of cooling, freezing, or air-conditioning systems by building contractors or engineering concerns are not included in Manufacturing Industries.						
3586	<u>Measuring and Dispensing Pumps</u> .....	8.4	69	91	12.1	76	98
	Establishments primarily engaged in manufacturing measuring-and- dispensing pumps, commonly used in service and filling stations for dispensing gasoline, oil, and grease, including grease guns. Es- tablishments primarily engaged in manufacturing pumps, compressors, and pumping equipment for general industrial use are classified in Industry 3561, Pumps and Compressors.						
3589	<u>Service and Household Machines, N.E.C.</u> (Service-Industry and Household Machines, N.E.C.).....	10.4	85	76	11.1	83	82
	Establishments primarily engaged in manufacturing machines and equip- ment, n.e.c., for household use or for use in service industries. Im- portant products of Industry 3589 include automotive maintenance equip- ment such as motor analyzers, wheel balancers, spark plug cleaners, and frame straighteners; household and commercial dishwashing machines; carpet sweepers (except electric vacuum); floor sanding and scrubbing machines; garbage-disposal units. Establishments primarily engaged in manufacturing household laundry equipment are classified in Industry 3581, Domestic Laundry Equipment; commercial laundry machinery in In- dustry 3582, Laundry and Dry-Cleaning Machinery; vacuum cleaners in Industry 3584; Vacuum Cleaners, and household and commercial elec- trical appliances in Industry 3621, Electric Appliances.						
359	Miscellaneous machinery parts.....	261.0	90	88	214.5	(NA)	(NA)
3591	<u>Valves and Fittings, Except Plumbing</u> (Valves and Fittings, Except Plumbers' Brass Goods and Fittings).....	75.0	85	86	79.7	82	90
	Establishments primarily engaged in manufacturing valves for controlling the flow of liquids or gases in pipes and mains, and for machinery, including parts and fittings for such valves. Establishments primarily engaged in manufacturing faucets, spigots, and similar plumbers' brass goods and fittings are classified in Industry 3431, Plumbing Fixtures and Fittings.						

See footnotes at end of table.



Code	Industry title and description	1954			1947		
		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
35	MACHINERY, EXCEPT ELECTRICAL—Continued						
359	Miscellaneous machinery parts—Continued						
3592	<u>Fabricated Pipe and Fittings</u> ..... Establishments primarily engaged in cutting, threading, bending, and otherwise fabricating pipe and pipe fittings from purchased pipe. Establishments primarily engaged in manufacturing cast-iron pipe and fittings are classified in Industry 3321, Gray-iron Foundries; welded and heavy-riveted pipe in Industry 3393, Welded and Heavy-Riveted Pipe, and seamless steel pipe in Industry 3312, Steel Works and Rolling Mills. Establishments primarily engaged in manufacturing plumbers' brass goods and fittings are classified in Industry 3431, Plumbing Fixtures and Fittings.	12.7	92	88	10.6	82	83
3593	<u>Ball and Roller Bearings</u> ..... Establishments primarily engaged in manufacturing ball and roller bearings and parts. Establishments primarily engaged in manufacturing bearings, except ball and roller, are classified in Industry 3566, Power-Transmission Equipment.	49.7	98	98	52.2	94	96
3594	<u>Industrial Patterns and Molds</u> ..... Establishments primarily engaged in manufacturing industrial patterns and molds for use with industrial equipment such as plastic-working, rubber-working, glass-working and foundry equipment.	19.9	93	73	9.7	(NA)	(NA)
3599	<u>Machine Shops (Machine Shops, Jobbing and Repair)</u> ..... Establishments primarily engaged in producing machine and equipment parts, n.e.c., from materials owned by them or performing machining operations on materials owned by others. These establishments usually operate on a job or order basis and are equipped with machine tools and other power-driven metalworking machinery capable of manufacturing a wide range of machine and equipment parts. Machine shops classified in this industry are characterized by their method of operation rather than their product, and the fact that they may be primarily engaged in repair work does not exclude them from this classification; however, machine shops engaged exclusively in repair work are classified in repair industries. Although generally characterized by method of operation rather than type of product, establishments primarily engaged in manufacturing the following products are classified in Industry 3599: metal bellows, bushings machined from purchased castings, carburetors, catapults, boiler-tube cleaners, valve cores, hydraulic cylinders, iron flasks, flexible metal hose and tubing, metallic packing (except asbestos-metallic), pistons and piston rings, and intake and exhaust valves for internal combustion engines. Establishments primarily engaged in rebuilding certain products such as machine tools, locomotives, etc., are classified in the same industry as establishments making such new equipment. Establishments primarily engaged in rebuilding other machinery and equipment are classified in Industry 3599. The most important rebuilt equipment included in Industry 3599 consisted of rebuilt automobile parts (automobile carburetors, generators, pumps, valves, etc.).	103.7	88	86	62.4	92	77
36	ELECTRICAL MACHINERY  This major group includes establishments engaged in manufacturing machinery, apparatus, and supplies for the generation, storage, transmission, transformation, and utilization of electrical energy. The manufacture of certain types of small electrical household appliances is included in this group, but machinery and equipment as well as other types of electrical appliances, powered by built-in or detachable electric motors are classified in Major Group 35, Machinery, Except Electrical. Establishments primarily engaged in manufacturing lighting fixtures are classified in Industry 3471, Lighting Fixtures; instruments for measuring, controlling and indicating physical characteristics, surgical and dental instruments and electric clocks are classified in Major Group 38, Instruments and Related Instruments, and electric signs in Industry 3993, Signs and Advertising Displays.						

See footnotes at end of table.



Code	Industry title and description	1954			1947		
		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
36	ELECTRICAL MACHINERY—Continued						
361	Electrical industrial apparatus.....	340.0	88	91	315.5	(NA)	(NA)
3611	Wiring Devices and Supplies.....	43.2	85	86	39.2	85	86
	Establishments primarily engaged in manufacturing wiring devices (at- tachment plugs and caps, convenience and power outlets, lamp sockets and receptacles, fluorescent starters, and snap switches); wiring supplies (pole-line hardware, conductor connectors, overhead trolley- line materials, and rail bonds for both propulsion and signal circuits); electrical insulators and insulation materials, except porcelain and glass insulators; electrical conduits and fittings; electrical switches and outlet boxes and accessories; and lightning arresters. Establish- ments primarily engaged in manufacturing electric lighting fixtures are classified in Industry 3471, Lighting Fixtures; porcelain insulators in Industry 3264, Porcelain Electrical Supplies; glass insulators in Indus- try 3229, Pressed and Blown Glassware, N.E.C.; knife and time switches in Industry 3616, Electrical Control Apparatus; switches designed for use in vehicles and aircraft in Industry 3641, Engine Electrical Equip- ment; and radio wave-band and similar radio switches in Industry 3661, Radio and Related Products.						
3612	Carbon and Graphite Products (Carbon and Graphite Products for Use in the Electrical Industry).....	8.3	98	94	7.8	95	95
	Establishments primarily engaged in manufacturing lighting carbons; car- bon graphite, and metal-graphite brushes and brush stock; carbon, or graphite electrodes for thermal and electrolytic uses; and other car- bon, graphite, and metal-graphite products for use in the electrical industries.						
3613	Electrical Measuring Instruments (Instruments for Indicating, Measuring, and Recording Electrical Quantities and Characteristics).....	33.0	75	76	20.9	84	80
	Establishments primarily engaged in manufacturing pocket, portable, panelboard, and graphic recording instruments for measuring electricity, such as voltmeters, ammeters, watt meters, watthour meters, demand meters, and other meters and indicating instruments. This industry also includes establishments primarily engaged in manufacturing meter transformers and analyzers for testing the electrical characteristics of internal-combustion engines, radio apparatus, etc. Establishments primarily engaged in manufacturing instruments for measuring and con- trolling mechanical forces (temperature, pressure, rotation, etc.) are classified in Industry 3821, Mechanical Measuring Instruments.						
3614	Motors and Generators (Motors, Generators, and Motor-Generator Sets).....	112.0	82	84	125.3	81	92
	Establishments primarily engaged in manufacturing electric motors (ex- cept starting motors) and power generators; motor-generator sets; rail- way motors and control equipment; and motors, generators, and control equipment for gasoline-electric and oil-electric busses and trucks, in- cluding storage-battery trucks. Establishments primarily engaged in manufacturing turbo-generators are classified in Industry 3511, Steam Engines and Turbines; and starting motors and battery-charging generators for internal combustion engines in Industry 3641, Engine Electrical Equipment. Establishments primari- ly engaged in repairing and rewinding of motors are classified in Ser- vice Industries.						
3615	Transformers (Power and Distribution Transformers).....	41.0	87	94	36.6	85	91
	Establishments primarily engaged in manufacturing power, distribution, and specialty transformers. Important products of this industry are liquid filled and dry type power and distribution transformers; sig- nalling; doorbell, and toy transformers; fluorescent lamp ballasts; lighting transformers; and power regulators, boosters, and reactors. Establishments primarily engaged in manufacturing radio-frequency or voice-frequency transformers, coils, or chokes are classified in In- dustry 3661, Radios and Related Products; instrument, meter, and trip- ping transformers in Industry 3613, Electrical Measuring Instruments; and resistance welder transformers in Industry 3617, Electrical Welding Apparatus.						

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
36	ELECTRICAL MACHINERY—Continued						
361	Electrical industrial apparatus—Continued						
3616	Electrical Control Apparatus (Switchgear, Switchboard Apparatus, and Industrial Controls)..... Establishments primarily engaged in manufacturing switchgear, switchboard apparatus, and industrial electrical controls. Important products of this industry include power switches, circuit breakers, contractors, and similar switchgear for general industrial application; switchboards and cubicles, control and metering panels, power fuse mountings, and similar switchboard apparatus and supplies; and industrial controls such as motor starters and controllers, electromagnetic brakes, and electronic inspection and gauging apparatus and positioning controls. Establishments primarily engaged in manufacturing snap, pushbutton, and tumbler switches are classified in Industry 3611, Wiring Devices, and Supplies; electrical control apparatus for land transportation equipment in Industry 3614, Motors and Generators; rheostats and resistors (except radio) in Industry 3619, Electrical Industrial Apparatus, N.E.C.	79.3	89	91	67.5	86	87
3617	Electrical Welding Apparatus..... Establishments primarily engaged in manufacturing electrical welding apparatus. Important products of this industry include arc welding machines, spot, projection, seam, flash and other resistance welders, welding electrodes, electrode holders, and other welding machinery accessories. Establishments primarily engaged in manufacturing gas welding apparatus are classified in Industry 3542, Metalworking Machinery; coated welding wire in Industry 3489, Wirework, N.E.C.; carbon or graphite welding electrodes in Industry 3612, Carbon and Graphite Products; arc welding protective helmets and shields, in Industry 3842, Surgical Appliances and Supplies; and arc welding protective goggles, in Industry 3851, Ophthalmic Goods.	8.2	90	92	7.3	93	89
3619	Electrical Industrial Apparatus, N.E.C. (Electrical Equipment for Industrial Use, N.E.C.)..... Establishments primarily engaged in manufacturing industrial and commercial electrical apparatus and appliances, n.e.c. Important products of this industry include high frequency induction and dielectric heating apparatus; capacitors for industrial use, except fixed and communications; rectifying apparatus (except communication type); and rheostats and resistors (except radio). Establishments primarily engaged in manufacturing household immersion heaters and electric soldering irons are classified in Industry 3621, Electrical Appliances; electronic type components for communications in Industry 3661, Radios and Related Products; and electron tube rectifiers in Industry 3662, Electronic Tubes.	15.0	81	64	10.9	77	53
362	Electrical appliances.....	48.6	76	74	44.1	86	72
3621	Electrical Appliances..... Establishments primarily engaged in manufacturing household and commercial electrical appliances used for heating, cooking, and other purposes such as: ranges, disk stoves, hot plates, cookers, casseroles, roasters, toasters, water heaters, irons, mixers, percolators, circulating fans, air space heaters, soldering irons, dry shavers, bed coverings, heating pads, and commercial steam tables. Establishments primarily engaged in manufacturing domestic laundry machines are classified in Industry 3581, Domestic Laundry Equipment; commercial laundry, dry-cleaning, and pressing machines in Industry 3582, Laundry and Dry-Cleaning Equipment; sewing machines in Industry 3583, Sewing Machines; vacuum cleaners in Industry 3584, Vacuum Cleaners; mechanical and absorption refrigerators in Industry 3585, Refrigeration Machinery; industrial type fans in Industry 3564, Blowers and Fans; and industrial immersion heaters, in Industry 3619, Electrical Industrial Apparatus, N.E.C.	48.6	76	74	44.1	86	72

See footnotes at end of table.



Code	Industry title and description	1954			1947		
		All employ- ees <sup>1</sup>  (1,000)	Industry ratio (percent)		All employ- ees <sup>1</sup>  (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
36	ELECTRICAL MACHINERY—Continued						
363	Insulated wire and cable.....	14.4	96	<sup>5</sup> 27	20.3	96	<sup>5</sup> 31
3631	<u>Insulated Wire and Cable</u> ..... Establishments primarily engaged in manufacturing insulated or armored wire and cable from purchased wire. Establishments engaged in drawing wire from purchased rods and bars and which are also engaged in making insulated wire are classified in Industry 3392, Wire Drawing. Industry 3631 also includes establishments primarily engaged in insulating wire and cable and in their further fabrication into other types of wire and cable such as flexible cord sets and appliance wire and cord. However, plants primarily engaged in fabricating flexible cord sets and appliance wire and cord from wire insulated in other establishments are classified in Industry 3699, Electrical Products, N.E.C.	14.4	96	<sup>5</sup> 27	20.3	96	<sup>5</sup> 31
364	Engine electrical equipment.....	46.3	85	87	44.5	89	91
3641	<u>Engine Electrical Equipment</u> (Electrical Equipment for Internal-Combustion Engines)..... Establishments primarily engaged in manufacturing electrical equipment for internal-combustion engines. Important products of this industry include starting motors and battery-charging generators for automobiles and aircraft; regulators for battery charging generators; other ignition apparatus, including spark plugs, magnetos, coils, and distributors; and component parts for engine electrical equipment. Establishments primarily engaged in manufacturing electric motors (except starting motors) and electric power generators are classified in Industry 3614, Motors and Generators.	46.3	85	87	44.5	89	91
365	Electric lamps (bulbs).....	22.0	94	99	23.8	94	100
3651	<u>Electric Lamps</u> (Bulbs)..... Establishments primarily engaged in manufacturing electric bulbs, tubes and related light sources. Important products of this industry include incandescent filament lamps, vapor and fluorescent lamps, photoflash and photoflood lamps, and other electric light sources. Establishments primarily engaged in manufacturing electrotherapeutic lamp units for ultraviolet and infrared radiation are classified in Industry 3693, X-ray and Therapeutic Apparatus; electric lighting fixtures in Industry 3471, Lighting Fixtures; glass blanks for bulbs in Industry 3229, Pressed and Blown Glassware, N.E.C.; and electric lamp bases and other electric lamp components (except glass blanks) in Industry 3699, Electrical Products, N.E.C.	22.0	94	99	23.8	94	100
366	Communication equipment.....	445.8	93	96	303.4	(NA)	(NA)
3661	<u>Radios and Related Products</u> ..... Establishments primarily engaged in manufacturing radio and television receiving and transmitting equipment, electrical and magnetic field detection apparatus, light and heat emission detecting apparatus, object detection apparatus (radar), and other apparatus and products associated with radio equipment, including miscellaneous radio parts; phonographs and accessories (except records--Industry 3663, Phonograph Records); and public-address and music-distribution apparatus. Other important products of Industry 3661, include electronic type components for communications, recorders, amplifiers, and audio equipment. Establishments primarily engaged in manufacturing radio receiving and transmitting tubes are classified in Industry 3662, Electronic Tubes; radio, phonograph, and TV cabinets are classified in Major Group 25, Furniture and Fixtures; dictating machines in Industry 3579, Office and Store Machines, N.E.C.; and sound reproducing motion picture projectors in Industry 3861, Photographic Equipment and Supplies.	294.0	( <sup>10</sup> )	( <sup>10</sup> )	178.6	( <sup>10</sup> )	( <sup>10</sup> )

See footnotes at end of table.



Code	Industry title and description	1954			1947		
		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
36	ELECTRICAL MACHINERY—Continued						
366	Communication equipment—Continued						
3662	Electronic Tubes (Electronic Tubes, Except X-Ray)..... Establishments primarily engaged in manufacturing electronic tubes. Products of this industry include cathode ray tubes (including TV pic- ture tubes), transistors and diodes, radio receiving-type tubes, trans- mitting and industrial type tubes, and electron tube parts (except glass blanks) sold separately. Establishments primarily engaged in manufacturing X-ray tubes are classified in Industry 3693, X-Ray Thera- peutic Apparatus.	71.0	97	94	27.7	94	95
3663	Phonograph Records..... Establishments primarily engaged in manufacturing phonograph records and record blanks. Establishments engaged exclusively in the production of master records are not included within the scope of the Census of Manu- factures, but establishments engaged both in the manufacturing (or pressing) of records and in the production of master records are in- cluded. However, the statistics for Industry 3663 exclude all costs and payments relating to the production of master records. Royalties and other payments to performers, publishers, the American Federation of Musicians, etc., are not included in the value of shipments for this industry.	6.2	94	97	10.0	96	99
3664	Telephone and Telegraph Equipment..... Establishments primarily engaged in manufacturing telephone and tele- graph equipment, and parts specifically designed for inclusion in tele- phone and telegraph circuits. Establishments primarily engaged in man- ufacturing radio-telephone and radio-telegraph apparatus and supplies are classified in Industry 3661, Radios and Related Products and radio tubes in Industry 3662, Electronic Tubes.	64.7	93	96	76.1	94	99
3669	Communications Equipment, N.E.C..... Establishments primarily engaged in manufacturing electrical communica- tion equipment, n.e.c., such as electric signalling apparatus, audible signals, burglar alarms, electric traffic signals, and railroad sig- nalling devices.	10.1	87	77	11.0	86	83
369	Electrical products, n.e.c.....	42.0	95	83	44.8	(NA)	(NA)
3691	Storage Batteries..... Establishments primarily engaged in manufacturing storage batteries. The more important types of storage batteries are starting, lighting and ignition (SLI), motive power, and communication storage batteries (radio, telephone, telegraph and railroad signalling). Establishments primarily engaged in manufacturing battery jars, boxes and separators are classified in other industries.	15.7	100	100	16.6	1490	1499
3692	Primary Batteries (Primary Batteries, Dry and Wet)..... Establishments primarily engaged in manufacturing dry and wet cell pri- mary batteries. Important products of this industry are batteries for flashlights, hearing aids, lanterns, and portable and farm radios.	10.8	98	98	10.3	1490	1498
3693	X-Ray and Therapeutic Apparatus..... Establishments primarily engaged in manufacturing electrotherapeutic and electromedical apparatus, X-ray apparatus and tubes, and lamps for infra-red and ultra-violet radiation. Establishment primarily engaged in manufacturing non-radio electronic tubes (except X-ray) are classi- fied in Industry 3662, Electronic Tubes.	7.1	81	91	7.7	94	93

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
36	ELECTRICAL MACHINERY—Continued						
369	Electrical products, n.e.c.—Continued						
3699	Electrical Products, N.E.C.....	8.5	89	48	10.3	83	52
	Establishments primarily engaged in manufacturing electrical products, n.e.c., such as supports, filaments and lead-in wires for electric lamps, electrical hearing aids, extension cords, and Christmas tree lighting outfits.						
	Industry 3699 also includes establishments primarily engaged in producing flexible cord sets and appliance wire and cord from purchased insulated wire and cable. However, wire drawing plants primarily manufacturing flexible cord sets and appliance wire and cord, are classified in Industry 3392, Wire Drawing; and wire insulating plants (not drawing wire) primarily manufacturing flexible cord sets, etc., in Industry 3631, Insulated Wire and Cable.						
37	TRANSPORTATION EQUIPMENT						
	This major group includes establishments engaged in manufacturing equipment for transportation of passengers and cargo by land, air, and water. Important products produced by establishments classified in this major group include motor vehicles, aircraft, ships, boats, railroad equipment, and miscellaneous transportation equipment such as motorcycles, bicycles, and horsedrawn vehicles.						
371	Motor vehicles and equipment.....	695.5	96	98	693.8	(NA)	(NA)
3717	Motor Vehicles and Parts (Includes S.I.C. Industry 3711, Motor Vehicles; 3712 Passenger-car Bodies; and 3714, Motor Vehicle Parts and Accessories).	649.3	(10)	(10)	645.1	(10)	(10)
	Establishments primarily engaged in manufacturing or assembling passenger automobiles, trucks, commercial cars and busses (except trackless trolleys, Industry 3742) and special purpose motor vehicles such as ambulances, fire engines, taxicabs, scout cars, personnel carriers, amphibian motor vehicles, and selected parts and accessories for motor vehicles. Establishments primarily engaged in manufacturing motor vehicles, on purchased chassis (ambulances, fire engines, etc.) are classified in Industry 3713, Truck and Bus Bodies.						
	Included in Industry 3717 are such parts as passenger-car bodies, motor vehicles engines (except Diesel) brakes, clutches, axles, radiators, differentials, transmissions, wheels and frames, windshield wipers, automotive bumpers, camshafts, connecting rods, crankshaft assemblies, cylinder heads, drive shafts, exhaust systems, fuel systems, heaters, hoods, horns, instrument board assemblies, lubrication systems, mufflers, power-transmission equipment, rear-axle housings, shock absorbers, steering mechanisms, tops (except stamped metal), universal joints, wheel rims, windshield frames, and automobile accessories, not elsewhere classified.						
	A considerable number of components, parts and accessories for motor vehicles are not classified in Industry 3717, but are classified in other Standard Industrial Classification industries based on the characteristic of the product itself rather than the use to which it is put. Among the more important of these are automotive hardware, Industry 3429, Hardware, N.E.C.; automotive stampings, Industry 3463, Metal Stamping; Diesel and semi-Diesel engines, Industry 3519, Internal Combustion Engines; sealed beam and other electric lamps, Industry 3651, Electric Lamps (Bulbs); motor vehicle lighting fixtures, Industry 3471, Lighting Fixtures; bearings, Industry 3566, Power-Transmission Equipment; tire and inner tubes, Industry 3011, Tires and Inner Tubes, automobile glass, Industry 3211, Flat Glass; ignition equipment such as spark plugs, distributors, switches, ignition coils, generators, cranks, motors, etc., Industry 3641, Engine Electrical Equipment; storage batteries, Industry 3691, Storage Batteries; automobile radios, Industry 3661, Radios and Related Products; and carburetors and pistons, Industry 3599, Machine Shops.						

See footnotes at end of table.



Code	Industry title and description	1954			1947		
		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
37	TRANSPORTATION EQUIPMENT—Continued						
371	Motor vehicles and equipment—Continued						
3713	Truck and Bus Bodies..... Establishments primarily engaged in manufacturing truck and bus bodies or in producing trucks and busses from purchased chassis. Establishments primarily engaged in manufacturing complete trucks and busses are classified in Census Industry 3717, Motor Vehicles and Parts; and stamped body parts for trucks and busses in Industry 3463, Metal Stampings. Truck and bus bodies built by garages, service stations and other establishments whose activities are primarily nonmanufacturing are excluded from the data for Manufacturing Industries.	18.7	86	87	26.6	79	90
3715	Truck Trailers..... Establishments primarily engaged in manufacturing truck trailers and tractor-type bus trailers, but not engaged in manufacturing complete trucks and busses. Important products of this industry include complete trailers, (e.g. logging, tank, platform, pole, van, dump, etc.) and trailers and trailer chassis for sale separately. Establishments primarily engaged in manufacturing trailer bodies are classified in Industry 3713, Truck and Bus Bodies, and passenger car trailers in Industry 3716, Automobile Trailers.	16.4	82	93	12.5	81	87
3716	Automobile Trailers (Automobile Trailers For Attachment To Passenger Cars). Establishments primarily engaged in manufacturing trailers for attachment to passenger cars, but not engaged in manufacturing complete automobiles. Important products of the industry include housing-type trailers; boat, camp, display, and utility-type trailers, and chassis for automobile-type trailers. Establishments primarily engaged in the manufacturing of truck trailers and tractor-type bus trailers are classified in Industry 3715, Truck Trailers, and trailer bodies in Industry 3713, Truck and Bus Bodies.	11.1	99	98	9.6	98	99
372	Aircraft and parts.....	822.5	96	95	219.6	(NA)	(NA)
3721	Aircraft..... Establishments engaged in manufacturing or assembling complete aircraft such as airplanes, gliders, helicopters, dirigibles, and balloons, and which may also manufacture aircraft parts and auxiliary equipment. Establishments primarily engaged in modifications and conversions of aircraft are also included in this industry. Establishments primarily engaged in manufacturing engines, propellers, and other aircraft parts and auxiliary equipment, but not engaged in manufacturing or assembling complete aircraft are classified in Industries 3722, Aircraft Engines; 3723, Aircraft Propellers; and 3729, Aircraft Equipment, N.E.C., respectively.	457.6	89	99	146.6	(NA)	(NA)
3722	Aircraft Engines..... Establishments primarily engaged in manufacturing aircraft engines and engine parts, but not engaged in manufacturing or assembling complete aircraft. Important products of this industry include internal-combustion and jet-propulsion engines; engine mount parts; air scoops; turbo superchargers; lubricating, cooling, and exhaust systems; nonelectric starters; aircraft engine pumps; and rocket engines. Establishments primarily engaged in manufacturing Diesel, semi-Diesel and internal combustion engines (except aircraft and motor-vehicle) are classified in Industry 3519, Internal Combustion Engines; and motor-vehicle engines and parts in Industry 3717, Motor Vehicles and Parts.	167.4	93	91	50.4	90	95
3723	Aircraft Propellers..... Establishments primarily engaged in manufacturing aircraft propellers and propeller parts, but not engaged in manufacturing or assembling complete aircraft. Important products of this industry include variable and fixed pitch propellers and propeller parts such as accumulators, blades, feathering pumps, and governors.	16.5	84	87	7.4	(NA)	(NA)

See footnotes at end of table.



Code	Industry title and description	1954			1947		
		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
37	TRANSPORTATION EQUIPMENT—Continued						
372	Aircraft and parts—Continued						
3729	Aircraft Equipment, N.E.C. (Aircraft Parts and Auxiliary Equipment, N.E.C.) Establishments primarily engaged in manufacturing aircraft parts and auxiliary equipment, n.e.c., but not engaged in assembling complete aircraft. Important products of this industry include airframe assemblies, wing assemblies, flaps and dive brakes, elevators, fins, rudders, and other empennage assemblies; alighting assemblies and parts such as landing and beaching gear, pontoons, and landing skis; auxiliary equipment such as deicing equipment, fuel metering systems, aircraft hydraulic systems, bomb racks, turrets and turret drivers, parachutes, targets, link trainers, and other auxiliary equipment specifically adapted for aircraft. Establishments primarily engaged in manufacturing or assembling complete aircraft are classified in Industry 3721, Aircraft; aircraft engines and parts in Industry 3722, Aircraft Engines; aircraft propellers and propeller parts in Industry 3723, Aircraft Propellers; aeronautical instruments in Industry 3811, Scientific Instruments; and aeronautical electrical equipment in Industry 3641, Engine Electrical Equipment. Establishments primarily engaged in manufacturing aircraft hardware are classified in Industry 3429, Hardware, N.E.C.; aviation job stampings in Industry 3463, Metal Stampings; aircraft incandescent lighting equipment in Industry 3471, Lighting Fixtures; aircraft cabin air conditioners in Industry 3585, Refrigeration Machinery; panel type electrical measuring instruments in Industry 3613, Electrical Measuring Instruments; and aircraft engine instruments (except electrical) in Industry 3821, Mechanical Measuring Instruments.	180.9	86	66	15.1	82	38
373	Ships and boats.....	126.4	94	98	149.7	95	99
3731	Ship Building and Repairing..... Establishments primarily engaged in building and repairing all types of ships whether propelled by sail or motor power or towed by other craft. Important products of this industry include passenger and cargo vessels, barges, tankers, fishing trawlers, towboats, tugboats, fireboats, ferries, dredges, yachts, lighters, harbor patrol craft and military ships (battleships, cruisers, aircraft carriers, destroyers, submarines, escort vessels and transports). Shipyards primarily engaged in repair work (including conversion and reconversion of ships) are also included in this industry. Establishments primarily engaged in building and repairing boats are classified in Industry 3732, Boatbuilding and Repairing. Establishments primarily engaged in fabricating structural assemblies or components for ships, or subcontractors engaged in ship painting, joinery, carpentry work, electrical wiring installation, etc., are not classified in this industry. Shipyards which are operated by the Federal Government are also excluded from Industry 3731.	109.5	92	99	130.8	94	98
3732	Boat Building and Repairing..... Establishments primarily engaged in building and repairing all types of boats such as motorboats, sailboats, rowboats, lifeboats, and canoes. Establishments primarily engaged in building and repairing ships are classified in Industry 3731, Ship Building and Repairing and those manufacturing rubber boats, pontoons, and life rafts are classified in Industry 3099, Rubber Industries, N.E.C. Establishments primarily engaged in servicing boats, i.e., rental of dock space, cleaning, storage, etc., or yacht clubs, are excluded from manufacturing and classified in Service Industries.	16.9	93	85	18.9	83	88

See footnotes at end of table.

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			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
37	TRANSPORTATION EQUIPMENT—Continued						
374	Railroad equipment.....	51.6	83	90	91.3	(NA)	(NA)
3741	Locomotives and Parts..... Establishments primarily engaged in building and rebuilding locomotives (including frames and parts) of any type or gauge, including steam, compressed air, straight-electric, storage battery, Diesel-electric, gasoline-electric, and Diesel-mechanical. Establishments primarily engaged in manufacturing rolled steel locomotive wheels, are classified in Industry 3312, Blast Furnaces and Steel Mills; cast gray-iron locomotive wheels in Industry 3321, Gray Iron Foundries; and steel locomotive springs in Industry 3493, Steel Springs. Railroad repair shops engaged in building and rebuilding locomotives are classified in Non-manufacturing Industries.	20.9	82	95	30.4	95	83
3742	Railroad and Street Cars..... Establishments primarily engaged in building and rebuilding railroad, street, and rapid-transit cars and car equipment for operation on rails for freight and passenger service. This industry also includes establishments primarily engaged in manufacturing trackless trolley busses. Establishments primarily engaged in manufacturing mining cars are classified in Industry 3531, Construction and Mining Machinery.	30.7	83	86	60.9	91	(NA)
375	Motorcycles and bicycles.....	7.1	86	92	15.6	87	89
3751	Motorcycles and Bicycles (Motorcycles, Bicycles, and Parts)..... Establishments primarily engaged in manufacturing motorcycles and side cars; motor scooters; bicycles; and motorcycle and bicycle parts such as saddles, seat posts, frames, gears, and handlebars. Establishments assembling motorcycles or bicycles from purchased parts are also included in this industry. Establishments primarily engaged in manufacturing children's vehicles are classified in Industry 3943, Children's Vehicles; and vehicle hardware in Industry 3429, Hardware, N.E.C.	7.1	86	92	15.6	87	89
379	Transportation equipment, not elsewhere classified.....	1.6	92	44	4.6	82	67
3799	Transportation Equipment, N.E.C..... Establishments primarily engaged in manufacturing transportation equipment, n.e.c., such as horse-drawn vehicles (farm wagons and trucks, carriages, sleighs, sulkies, carts, and sleds) and parts; and wheelbarrows and pushcarts. Establishments primarily engaged in manufacturing industrial trucks, tractors, trailers, and stackers are classified in Industry 3565, Industrial Trucks and Tractors, and children's vehicles in Industry 3943, Children's Vehicles.	1.6	92	44	4.6	82	67
38	INSTRUMENTS AND RELATED PRODUCTS  This major group includes establishments engaged in manufacturing mechanical measuring, laboratory, and scientific instruments; optical instruments and lenses; surgical, medical, and dental instruments, equipment and supplies; ophthalmic goods; photographic equipment and supplies; watches and clocks. Establishments primarily engaged in manufacturing instruments for indicating, measuring, and recording electrical quantities and characteristics are classified in Industry 3613. Dental laboratories making dentures and artificial teeth to order for the dental profession, and establishments grinding ophthalmic lenses on an individual prescription basis are classified in Trade Industries.						

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
38	INSTRUMENTS AND RELATED PRODUCTS—Continued						
381	Scientific instruments.....	45.3	77	64	18.4	81	82
3811	<u>Scientific Instruments</u> (Laboratory, Scientific, and Engineering Instru- ments)..... Establishments primarily engaged in manufacturing laboratory, scienti- fic, and engineering instruments such as nautical, navigational, aero- nautical, surveying, drafting, mathematical instruments, and instru- ments for laboratory work and scientific research (except microscopes and telescopes—Industry 3831, Optical Instruments and Lenses). Im- portant products of Industry 3811, include aircraft flight instruments and automatic pilots, surveying and drafting instruments including transits, slide rules, planimeters, integrators, etc.; and miscella- neous types of laboratory and scientific instruments. Establishments primarily engaged in manufacturing surgical and medical instruments are classified in Industry 3841, Surgical and Medical Instruments; dental instruments and equipment in Industry 3843, Surgical Appliances and Supplies; mechanical measuring and controlling instruments in Industry 3821, Mechanical Measuring Instruments; machinists' precision measuring tools in Industry 3545, Metalworking Machinery Attachments; and instru- ments for indicating, measuring, and recording electrical quantities and characteristics in Industry 3613, Electrical Measuring Instruments.	45.3	77	64	18.4	81	82
382	Mechanical measuring instruments.....	69.4	87	79	60.5	84	81
3821	<u>Mechanical Measuring Instruments</u> (Mechanical Measuring and Controlling Instruments)..... Establishments primarily engaged in manufacturing mechanical instruments for indicating, recording, measuring, and controlling temperature, pressure, mechanical motion, rotation, flow, liquid level, humidity, density, acidity, alkalinity, and combustion; dial pressure gauges; physical-property testing apparatus such as hardness, tension, com- pression torsion, ductility, and elasticity testing apparatus; and instruments for household and office use such as thermometers, barometers and rain gauges. Establishments primarily engaged in manu- facturing instruments for indicating, measuring, and recording elec- trical quantities and characteristics are classified in Industry 3613, Electrical Measuring Instruments; watches and clocks in Industry 3871, Watches and Clocks; and measuring and dispensing pumps in Industry 3586, Measuring and Dispensing Pumps.	69.4	87	79	60.5	84	81
383	Optical instruments and lenses.....	12.7	82	77	8.5	93	75
3831	<u>Optical Instruments and Lenses</u> ..... Establishments primarily engaged in grinding optical lenses and prisms, and in manufacturing microscopes, telescopes, field and opera glasses, and related optical instruments such as refractometers, spectrometers, spectroscopes, colorimeters, polariscopes, and optical measuring instruments. Other products included in this industry are photographic and projection lenses and prisms, microprojectors, contour projectors and metallagraphic equipment. Establishments primarily engaged in manufacturing optical glass blanks are classified in Industry 3211, Flat Glass; in the grinding of eyeglass lenses and in manufacture of other ophthalmic goods such as eyeglass frames or fittings, in Industry 3851, Ophthalmic Goods; and those engaged in manufacturing sighting and fire control instrument, but not engaged in manufacturing optical com- ponents, in Industry 1941, Sighting and Fire Control Equipment.	12.7	82	77	8.5	93	75

See footnotes at end of table.



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			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
38	INSTRUMENTS AND RELATED PRODUCTS—Continued						
384	Medical instruments and supplies.....	38.1	88	86	39.1	(NA)	(NA)
3841	<u>Surgical and Medical Instruments.....</u> Establishments primarily engaged in manufacturing surgical, veterinary, orthopedic, other medical instruments and apparatus. Important products of this industry are surgical knives and blades, suture needles, hypodermic syringes and needles, and diagnostic apparatus such as metabolism and blood pressure apparatus, ophthalmoscopes, otoscopes, systoscopes, etc. Establishments primarily engaged in manufacturing surgical and orthopedic appliances are classified in Industry 3842, Surgical Appliances and Supplies; and electrotherapeutic, electro-medical, and X-ray apparatus in Industry 3693, X-Ray and Therapeutic Apparatus.	6.6	86	75	7.0	83	88
3842	<u>Surgical Appliances and Supplies (Surgical and Orthopedic Appliances and Supplies; and Personal Safety Devices, N.E.C.).....</u> Establishments primarily engaged in manufacturing surgical and orthopedic appliances and supplies, including surgical gut strings; hospital and surgical sterilizers; artificial limbs; fracture appliances; elastic hosiery, arch supports, and other foot appliances; abdominal supporters, braces, and trusses; sanitary napkins; bandages; surgical gauze and dressings; adhesive tapes and medicated plasters; and personal safety appliances and supplies, n.e.c., gas masks, first aid kits, respirators. Establishments primarily engaged in manufacturing surgical and medical instruments are classified in Industry 3841, Surgical and Medical Instruments; work clothing in Major Group 23, Apparel; rubber clothing, including gloves and shoes in Major Group 30, Rubber Products, leather products, including straps, gloves and shoes in Major Group 31, Leather Products; industrial goggles in Industry 3851, Ophthalmic Goods. Establishments which produce orthopedic appliances primarily according to the specifications of individual prescriptions are classified in Retail Trade.	24.5	85	85	23.1	81	91
3843	<u>Dental Equipment and Supplies.....</u> Establishments primarily engaged in manufacturing dental instruments, mechanical devices, and other equipment and supplies for use by dentists. Dental laboratories making dentures and artificial teeth to order for the dental profession are classified in Service Industries.	7.1	95	94	9.1	97	94
385	Ophthalmic goods.....	18.5	83	94	22.6	86	97
3851	<u>Ophthalmic Goods.....</u> Establishments primarily engaged in grinding ophthalmic lenses, and in manufacturing other ophthalmic goods such as eyeglass frames or fittings. Other products of this industry are industrial goggles; eye protectors; mountings and parts for frames and goggles; sun or glare glasses and goggles and sun glass frames. Retail establishments fitting eyeglasses to individual order and establishments primarily engaged in grinding lenses to prescription order and in the sale of other ophthalmic supplies are classified in Trade Industries.	18.5	83	94	22.6	86	97

See footnotes at end of table.

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		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
38	INSTRUMENTS AND RELATED PRODUCTS—Continued						
386	Photographic equipment.....	59.1	90	95	55.6	93	97
3861	Photographic Equipment and Supplies..... Establishments primarily engaged in manufacturing photographic apparatus, equipment and supplies. Important products of this industry include apparatus such as still cameras, motion picture cameras, projection apparatus, photocopy and microfilm machines; equipment such as plate and film holders, tripods, film reels, developing tanks and machines, enlargers, and motion picture screens; and supplies such as sensitized film paper and plates; and prepared developers, fixers and toners. Es- tablishments primarily engaged in manufacturing photographic paper stock (unsensitized), paper mats, mounts, and folders are classified in Major Group 26, Pulp, Paper and Products; chemicals for photographic or technical purposes in Major Group 28, Chemicals and Products; photo- graphic glass in Major Group 32, Stone, Clay, and Glass Products; and photographic lenses in Industry 3831, Optical Instruments and Lenses. Establishments primarily engaged in developing or processing film or respooling film are classified as nonmanufacturing and excluded from the Census of Manufactures.	59.1	90	95	55.6	93	97
387	Watches and clocks.....	29.5	82	90	40.2	(NA)	(NA)
3871	Watches and Clocks (Watches, Clocks and Parts, Except Watchcases)..... Establishments primarily engaged in manufacturing clocks (including electric), watches, mechanisms for clock-work-operated devices, and clocks and watch parts, except watch crystals. This industry includes establishments primarily engaged in assembling clocks and watches from purchased movements and cases. Establishments primarily engaged in manufacturing watchcases are classified in Industry 3872, Watchcases, glass crystals in Industry 3231, Products of Purchased Glass, and un- breakable crystals in Industry 3971, Plastics Products, N.E.C., time- recording clocks, time-stamp machines and watchmen's clocks in Industry 3579, Office and Store Machines, N.E.C. The purchase of complete watches and the attachment of straps or bands thereto is not a manufac- turing activity. This activity is classified in Trade Industries.	25.7	82	90	34.6	97	98
3872	Watchcases..... Establishments primarily engaged in the manufacture of watchcases, for sale as such. Establishments primarily engaged in producing complete watches by assembling purchased movements with watchcases of their own manufacture are classified in Industry 3871, Watches and Clocks.	3.8	86	85	5.6	87	94
39	MISCELLANEOUS MANUFACTURES  This major group includes establishments primarily engaged in manufac- turing products not classified in any other manufacturing major group. Industries in this group fall into the following categories: jewelry, silverware and plated ware; musical instruments; toys, sporting and athletic goods; pens, pencils, and other office and artists' materials; buttons, costume novelties, miscellaneous notions, fabricated plastics; products; brooms and brushes; morticians' goods; and other miscellaneous manufacturing industries.						

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
39	MISCELLANEOUS MANUFACTURES—Continued						
391	Jewelry, silverware, and plated ware.....	48.0	93	96	55.2	(NA)	(NA)
3911	Jewelry (Precious Metal)..... Establishments primarily engaged in manufacturing jewelry and other articles (to be worn on or carried about the person) made of precious metals with or without precious stones, including cigarette cases and lighters; vanity cases and compacts; trimmings for umbrellas and canes; and jeweled settings and mountings. Establishments primarily engaged in manufacturing jewelry from semiprecious metals, such as filled gold, rolled gold plate, filled palladium, rolled palladium plate, and sterling silver, are also included in this industry. Establishments primarily engaged in manufacturing costume jewelry from nonprecious metal (including base metals electroplated with gold, silver, etc.) and other materials are classified in Industry 3961, Costume Jewelry.	23.5	93	96	25.6	92	95
3912	Jewelers' Findings (Jewelers' Findings and Materials)..... Establishments primarily engaged in manufacturing unassembled jewelry parts, and stock-shop products such as sheet, wire, and tubing for use in the manufacture of jewelry. Establishments primarily engaged in lapidary work are classified in Industry 3913, Lapidary Work.	5.4	92	91	6.1	92	93
3913	Lapidary Work..... Establishments primarily engaged in all types of lapidary work, including cutting and polishing diamonds and other precious stones; drilling pearls; recutting and setting stone; preparing jewels for instruments, tools, and for watches and chronometers; and preparing real and imitation stones for settings.	1.8	97	91	1.7	98	98
3914	Silverware and Plated Ware..... Establishments primarily engaged in manufacturing flatware (including knives, forks, and spoons), hollow ware, toilet ware, ecclesiastical ware, and related products made of sterling silver; of metal plated with silver, gold, or other metal; of stainless steel; of nickel-silver; or of pewter. "Flatware" is defined in the Census as all knives, forks, spoons, etc., made wholly of metal, including stainless steel knives, forks, and spoons, and carving sets with metal handles. Knives, forks, spoons, etc., with handles of materials other than metal are included in Industry 3421, Cutlery.	17.3	91	97	21.8	98	97
393	Musical Instruments and parts.....	15.4	96	96	16.9	(NA)	(NA)
3931	Pianos..... Establishments primarily engaged in manufacturing complete pianos, with or without player attachments. Included in this industry are all types of pianos: vertical, grand, spinet, player, and coin-operated. Establishments primarily engaged in manufacturing piano parts are classified in Industry 3933, Piano and Organ Parts.	5.8	88	100	7.0	94	100
3932	Organs..... Establishments primarily engaged in manufacturing complete pipe organs, reed organs, electronic organs, and organs with electrical amplification. Establishments primarily engaged in manufacturing organ parts are classified in Industry 3933, Piano and Organ Parts.	1.8	98	74	1.3	85	70
3933	Piano and Organ Parts (Piano and Organ Parts and Materials)..... Establishments primarily engaged in manufacturing piano and organ parts and materials. Included in this industry are plants primarily engaged in manufacturing such parts as piano strings, plates, keys, actions, keyboards, back frames, pedal attachments, hammers, sounding boards, organ reeds, pipes, stops, knobs, and music rolls. Establishments primarily engaged in manufacturing complete pianos are classified in Industry 3932, Pianos, and complete organs in Industry 3932, Organs.	3.0	95	88	3.2	95	82

See footnotes at end of table.



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			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
39	MISCELLANEOUS MANUFACTURES—Continued						
393	Musical Instruments and parts—Continued						
3939	Musical Instruments, N.E.C. (Musical Instruments, Parts and Materials, N.E.C.).....	4.9	88	95	5.4	93	90
	Establishments primarily engaged in manufacturing all kinds of musical instruments, parts, and materials, n.e.c. Included in this industry are such musical instruments as accordions, bells, chimes, cymbals, drums, harps, mandolins, ocarinas, octophones, piccolos, saxophones, trumpets, ukuleles, violins, zithers, etc., and musical accessories and parts such as reed mouthpieces, music stands, drummers' traps, etc. Establishments primarily engaged in manufacturing pianos are classified in Industry 3931, Pianos; organs in Industry 3932, Organs; piano and organ parts in Industry 3933, Piano and Organ Parts; instrument cases in Industry 3986, Jewelry and Instrument Cases; and toy musical instruments in Industry 3941, Games and Toys.						
394	Toys and sporting goods.....	88.6	93	91	75.5	(NA)	(NA)
3941	Games and Toys, N.E.C. (Games and Toys, Except Dolls, and Children's Vehicles).....	38.2	95	89	27.1	92	90
	Establishments primarily engaged in manufacturing indoor games and game sets for adults and children, and mechanical and nonmechanical toys. Important products of this industry include such games as chess, checkers, dominoes, puzzles, and other indoor games; and toys such as toy furniture, doll carriages and carts, toy books, construction sets, mechanical trains, toy guns and air rifles, and other mechanical games and toys. These games and toys may be made of wood, metal, plastic, or paper.						
	Establishments primarily engaged in manufacturing dolls are classified in Industry 3942, Dolls; children's outdoor wheel goods, and vehicles in Industry 3943, Children's Vehicles; sporting and athletic goods in Industry 3949, Sporting and Athletic Goods; playing cards in Industry 2699, Paper and Board Products, N.E.C.; rubber toys, including balloons and balls, in Industry 3099, Rubber Industries, N.E.C.; and children's books, except toy books, in Major Group 27, Printing and Publishing.						
3942	Dolls.....	15.1	92	97	9.8	89	98
	Establishments primarily engaged in manufacturing dolls, doll parts, and doll clothing. Establishments primarily engaged in manufacturing stuffed toy animals are also included in this industry. Establishments primarily engaged in manufacturing doll wigs are classified in Industry 3994, Hairwork.						
3943	Children's Vehicles.....	6.3	76	90	8.8	81	79
	Establishments primarily engaged in manufacturing baby carriages, strollers, and go-carts; children's velocipedes and tricycles, coaster wagons, play cars, sleds, and other children's outdoor wheel goods and vehicles.						
3949	Sporting and Athletic Goods (Sporting and Athletic Goods, N.E.C.).....	28.9	90	86	29.8	94	90
	Establishments primarily engaged in manufacturing sporting and athletic goods, n.e.c., such as fishing tackle; golf and tennis goods; baseball, football, basketball, and boxing equipment; roller skates and ice skates; gymnasium and playground equipment; billiard and pool tables; and bowling alleys and equipment. Also included in this industry are establishments primarily engaged in manufacturing athletic and sporting gloves, shin guards, helmets, shoulder pads, chest protectors, and similar items.						
	Establishments primarily engaged in manufacturing athletic uniforms are classified in Major Group 23, Apparel and Related Products; athletic shoes in Industry 3141, Footwear; rubber footwear in Industry 3021, Rubber Footwear; socks in Industry 2252, Seamless-Hosiery Mills; fire-arms and small arms ammunition in Major Group 19, Ordnance and Accessories; and rubber balls (except bowling balls, golfballs, tennis balls, footballs, and basketballs) in Industry 3099, Rubber Industries, N.E.C.						

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
39	MISCELLANEOUS MANUFACTURES—Continued						
395	Office supplies.....	28.2	91	91	31.4	(NA)	(NA)
3951	<u>Pens and Mechanical Pencils</u> (Pens, Mechanical Pencils, and Pen Points)..... Establishments primarily engaged in manufacturing fountain pens, stylo- graphic pens, mechanical pencils, pen points, penholders, and parts for pens and mechanical pencils. Ball-point type pens and refills are also included in this industry. Establishments primarily engaged in manu- facturing lead pencils and refill leads for mechanical pencils are classified in Industry 3952, Lead Pencils and Crayons.	10.9	89	95	15.6	93	95
3952	<u>Lead Pencils and Crayons</u> ..... Establishments primarily engaged in manufacturing lead pencils, pencil leads, and crayons. Establishments primarily engaged in manufacturing mechanical pencils are classified in Industry 3951, Pens and Mechanical Pencils; and rubber erasers in Industry 3099, Rubber Industries, N.E.C.	5.0	88	94	6.3	91	90
3953	<u>Hand Stamps and Stencils</u> (Hand Stamps, Stencils, and Brands)..... Establishments primarily engaged in manufacturing rubber and metal hand stamps, dies, and seals; steel letters and figures; stencils for use in painting or marking; and branding irons. Also included in this indus- try are hand presses for seals and marking dies, and time stamps with- out clockwork mechanisms.	5.7	90	89	4.6	89	89
3954	<u>Artists' Materials</u> ..... Establishments primarily engaged in manufacturing materials and equip- ment for art work, such as airbrushes, drawing tables and boards, palettes, sketch boxes, pantographs, artists' colors and waxes, pyrography goods, drawing inks, and drafting materials. Establishments primarily engaged in manufacturing drafting instruments are classified in Industry 3811, Scientific Instruments.	1.9	84	76	1.4	79	74
3955	<u>Carbon Paper and Inked Ribbons</u> ..... Establishments primarily engaged in manufacturing carbon paper for typewriters, sales books, etc.; spirit or gelatin process stencil paper; and inked ribbons for typewriters, adding machines, cash reg- isters, etc.	4.7	93	83	3.7	1490	1490*
396	Costume Jewelry and notions.....	66.7	91	94	66.0	(NA)	(NA)
3961	<u>Costume Jewelry</u> (Costume Jewelry and Costume Novelties, Except Precious Metal)..... Establishments primarily engaged in manufacturing costume jewelry, costume novelties, and ornaments made of all materials, except precious metal and precious or semiprecious stones (Industry 3911, Jewelry, Precious Metal). Establishments primarily engaged in manufacturing costume jewelry from base metal which is electroplated with gold, sil- ver, chromium, etc., are also included in Industry 3961, Costume Jewelry.	27.7	95	95	25.4	90	91
3962	<u>Artificial Flowers</u> (Feathers, Plumes, and Artificial Flowers)..... Establishments primarily engaged in manufacturing artificial flowers, fruits, and foliage made from all materials except glass (Industry 3231, Products of Purchased Glass); in producing fancy feathers, plumes, and articles made principally of feathers and plumes; and in curling, dye- ing, and renovating ostrich feathers for the trade.	7.3	97	98	7.1	97	99
3963	<u>Buttons</u> ..... Establishments primarily engaged in manufacturing buttons, button parts, and button blanks and molds, of all materials except precious metal and precious or semiprecious stone (Industry 3911, Jewelry, Precious Metal).	8.5	92	89	10.6	93	94

See footnotes at end of table.

## APPENDIX A

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Code	Industry title and description	1954			1947		
		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
39	MISCELLANEOUS MANUFACTURES—Continued						
396	Costume jewelry and notions—Continued						
3964	Needles, Pins, and Fasteners (Needles, Pins, Hooks and Eyes, and Similar Notions).....	23.2	82	91	23.0	91	89
	Establishments primarily engaged in manufacturing notions such as machine and hand needles, pins, hooks and eyes, eyelets, buckles, and slide and snap fasteners.						
397	Plastics products, n.e.c.....	92.0	90	84	58.4	91	89
3971	Plastics Products, N.E.C. (Fabricated Plastics Products, N.E.C.).....	92.0	90	84	58.4	91	89
	Establishments primarily engaged in molding primary plastics for the trade and manufacturing finished plastics products, n.e.c. Establishments primarily engaged in manufacturing plastics materials in the form of sheets, rods, tubes, granules, powders or liquids or vinyl and polyethylene unsupported film and sheeting from resins produced in the same plant are classified in Industry 2823, Plastics Materials.						
	Plants classified in this industry are fabricators (extruders, laminators, calenderers, molders) and manufacture products from materials chemically synthesized in plants classified in Industry 2823, Plastics Materials. Industry 3971 is a "residual" type industry and the products of this industry are limited to those which are not classified elsewhere. For example, electrical wiring devices and supplies made from plastics materials are classified in Industry 3611, Wiring Devices and Supplies; plastic jewelry cases in Industry 3986, Jewelry and Instrument Cases; plastic fishing rods in Industry 3949, Sporting and Athletic Goods; plastic shower curtains in Industry 2392, Housefurnishing, N.E.C.; and plastic radio and television cabinets in Industry 2519, Household Furniture, N.E.C.						
398	} Miscellaneous manufactures.....	357.2	(NA)	(NA)	160.0	(NA)	(NA)
399							
19							
3981	Brooms and Brushes.....	16.8	91	92	18.6	94	97
	Establishments primarily engaged in manufacturing household, industrial, and street-sweeping brooms; and brushes such as paint brushes, tooth-brushes, toilet brushes, and household and industrial brushes. Establishments primarily engaged in manufacturing mops and dusters are included in Industry 2392, Housefurnishings, N.E.C.; those manufacturing rubber brushes in Industry 3099, Rubber Industries, N.E.C.; those manufacturing artists' air brushes in Industry 3954, Artists' Materials.						
3982	Cork Products.....	2.1	81	69	2.5	88	75
	Establishments primarily engaged in manufacturing cork products from whole or ground cork. Important products of this industry include bottle corks, life preservers, insulating materials, tile, and other articles made of cork. Establishments primarily engaged in manufacturing linoleum and cork floor coverings are classified in Industry 2274, Hard Surface Floor Coverings, and cork gaskets in Industry 3293, Gaskets and Asbestos Insulation.						
3983	Matches.....	6.2	100	98	7.4	<sup>8</sup> 100	100
	Establishments primarily engaged in manufacturing matches, regardless of the material used.						
3984	Candles.....	3.0	87	93	2.4	91	87
	Establishments primarily engaged in manufacturing candles from fatty acids, or from mineral and animal waxes.						

See footnotes at end of table.



Code	Industry title and description	1954			1947		
		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)		All employ- ees <sup>1</sup> (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
39	MISCELLANEOUS MANUFACTURES—Continued						
398	} Miscellaneous manufactures—Continued						
399							
19							
3985	<u>Fireworks and Pyrotechnics</u> .....	2.6	89	89	3.3	97	96
	Establishments primarily engaged in manufacturing fireworks of all kinds, flares, flashlight bombs, and railroad torpedoes and fuses. Establishments primarily engaged in manufacturing safety fuses and detonating caps are classified in Industry 2826, Explosives.						
3986	<u>Jewelry and Instrument Cases</u> .....	8.0	85	92	7.2	85	80
	Establishments primarily engaged in manufacturing compacts and vanity cases, chests for silverware, and other cases, fancy boxes, and trays for jewelry, instruments, cutlery, eyeglasses, combs, cigarettes, pipes, toilet sets, etc. Establishments primarily engaged in manufacturing similar cases of leather are classified in Industry 3172, Small Leather Goods and of precious metals in Group 391, Jewelry, Silverware and Plated Ware.						
3987	<u>Lamp Shades</u> .....	5.0	93	96	4.5	93	93
	Establishments primarily engaged in manufacturing lamp shades of all materials except glass (Industry 3229, Pressed and Blown Glassware, N.E.C.), and metal (Industry 3471, Lighting Fixtures).						
3988	<u>Morticians' Goods</u> .....	16.7	97	97	22.4	90	97
	Establishments primarily engaged in manufacturing caskets, coffins, burial cases, and coffin shipping cases, whether of wood or other material (except concrete—Industry 3271, Concrete Products); morticians' supplies and accessories such as burial garments, gloves, slippers, casket linings, and embalming fluids; and morticians' paraphernalia and equipment.						
3991	<u>Beauty and Barber-Shop Equipment</u> (Beauty-Shop and Barber-Shop Equipment)...	1.7	92	71	3.2	77	68
	Establishments primarily engaged in manufacturing special furniture, devices, and equipment for use in beauty shops and barber shops. Important products of this industry include the following items for beauty and barber-shop use: hair clippers, hair curlers, hair dryers, heat masks, hydraulic chairs, lather mixers, massage machines, permanent-wave equipment and machines, sterilizers, and vibrators. Establishments primarily engaged in manufacturing soaps, shampoos, cosmetics, permanent wave solutions, etc., are classified in Major Group 28, Chemicals and Allied Products; and manicure scissors and implements in Industry 3421, Cutlery.						
3992	<u>Furs, Dressed and Dyed</u> .....	13.5	(11)	(11)	6.9	(11)	(11)
	Establishments primarily engaged in scraping, currying, tanning, bleaching, and dyeing pelts.						
3993	<u>Signs and Advertising Displays</u> .....	33.6	93	92	28.5	95	88
	Establishments primarily engaged in manufacturing electrical, mechanical, cut-out, or plate signs and advertising displays, including neon signs and advertising novelties. Establishments primarily engaged in manufacturing electric signal equipment are classified in Industry 3669, Communication Equipment, N.E.C.; and lighting fixtures in Industry 3471, Lighting Fixtures. Sign-painting shops doing business on a custom basis and establishments primarily engaged in providing advertising services or the erection and maintenance of signs are excluded from manufacturing and classified in Service Industries.						
3994	<u>Hairwork</u> .....	1.7	96	97	1.2	95	99
	Establishments primarily engaged in manufacturing wigs, toupees, transformations, switches, and related articles made largely from human hair, but in some cases from animal hair or various fibers. Establishments primarily engaged in making wigs for dolls are also included in this industry.						

See footnotes at end of table.

Code	Industry title and description	1954			1947		
		All employ- ees <sup>1</sup>  (1,000)	Industry ratio (percent)		All employ- ees <sup>1</sup>  (1,000)	Industry ratio (percent)	
			Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>		Spe- cial- iza- tion <sup>2</sup>	Cov- er- age <sup>3</sup>
39	MISCELLANEOUS MANUFACTURES—Continued						
398 } 399 } 19 }	Miscellaneous manufactures—Continued						
3995	<u>Umbrellas, Parasols, and Canes</u> ..... Establishments primarily engaged in manufacturing umbrellas, parasols, canes, and trimmings, frames, handles, and other parts.	3.2	95	92	3.6	97	100
3996	<u>Tobacco Pipes (Tobacco Pipes and Cigarette Holders)</u> ..... Establishments primarily engaged in manufacturing tobacco pipes, and cigarette and cigar holders. Establishments primarily engaged in manufacturing tobacco pipe stems and bits of hard rubber are classified in Industry 3099, Rubber Industries, N.E.C.	1.5	99	98	3.1	(D)	(D)
3997	<u>Soda-Fountain and Bar Equipment (Soda-Fountain and Beer-Dispensing Equipment)</u> ..... Establishments primarily engaged in manufacturing soda fountains and beer-dispensing equipment; and tanks, siphons, and other parts and accessories for such equipment. Establishments primarily engaged in manufacturing commercial refrigeration equipment, including dispensing equipment, are classified in Industry 3585, Refrigeration Machinery.	1.4	83	74	2.7	83	76
3999	<u>Miscellaneous Products, N.E.C. (Miscellaneous Fabricated Products, N.E.C.)</u> . Establishments primarily engaged in manufacturing portable fire extinguishers, models and patterns except paper and industrial; theatrical scenery and advertising curtains; braided articles; holiday goods; military insignia; identification plates, badges, emblems, and tags; and many other small articles not elsewhere classified. Establishments primarily engaged in wool pulling, and in dressing hair and bristles are also included in this industry. Establishments primarily engaged in manufacturing paper patterns, are classified in Industry 2699, Paper and Board Products, N.E.C., and patterns and molds for industrial use in Industry 3594, Industrial Patterns and Molds.	20.8	84	88	22.7	89	92
1900	<u>Ordnance and Accessories, N.E.C., Including Small Arms and Ammunition (Includes S.I.C. Industries 1911 to 1999 Ordnance and Accessories)</u> ..... Establishments primarily engaged in manufacturing ordnance and accessories, n.e.c.	229.2	(NA)	(NA)	(NA)	(NA)	(NA)
1951	<u>Small Arms</u> ..... Establishments primarily engaged in manufacturing small firearms having a bore 30MM (or 1.18 inches) and under. Important products of this industry include machine guns and other automatic arms, rifles, carbines, pistols, revolvers, shotguns, pyrotechnic pistols and projectors, machine gun mounts, and parts for small firearms. Establishments primarily engaged in manufacturing artillery and mortars having a bore over 30 MM (or over 1.18 inches) and component parts, are classified in Group 1900, Other Ordnance and Accessories, N.E.C.	13.8	(NA)	(NA)	10.5	(NA)	(NA)
1961	<u>Small Arms Ammunition</u> ..... Establishments primarily engaged in manufacturing ammunition for small arms having a bore 30 MM (or 1.18 inches) and under. Establishments primarily engaged in manufacturing ammunition except for small arms are classified in Group 1900, Other Ordnance and Accessories, N.E.C. Blasting and detonating caps, and safety fuses in Industry 2826, Explosives, and fireworks in Industry 3985, Fireworks and Pyrotechnics.	28.5	(NA)	(NA)	8.1	(NA)	(NA)

See footnotes on page App. A-94.

## Footnotes for Appendix A

NA Not available.

(D) Withheld to avoid disclosing data for individual companies.

<sup>1</sup>The average total employment figure for 1954 is based on data reported for four months (March, May, August and November), except for industries with significant seasonal variations. For such industries (indicated by footnote 1), the employment figure is based on the average of the mid-month total for each of the 12 months of the year. For 1947, the employment figure for all industries represents averages of reported employment for the 12 months of the year.

<sup>2</sup>Ratio of value of primary products shipped by the industry to total product shipments (primary and secondary) by the industry. Unless otherwise specified, the value of miscellaneous receipts is excluded from this computation.

<sup>3</sup>Ratio of value of primary products shipped by the industry to total shipments of these products by all manufacturing industries.

<sup>4</sup>1947 ratios for Industries 2011 and 2013 cannot be computed separately owing to the lack of necessary data. On a combined basis (Industries 2011 and 2013 taken together) the 1947 specialization and coverage ratios are 96 and 99 percent respectively. The comparable ratios for 1954 are 98 and 99 percent respectively.

<sup>5</sup>The low coverage ratio reflects industry classifications which are based on manufacturing process rather than products. The coverage ratio would be much higher if compared to shipments by process defining the industry rather than to shipments by all manufacturing industries.

<sup>6</sup>1954 Census industry was combined in 1947 Census publications; comparable ratios on a combined basis are as follows:

Industry	1954 ratio		1947 ratio	
	Special-ization	Coverage	Special-ization	Coverage
2612 and 2613.....	100	100	100	100
2811 and 2819.....	89	80	87	80
2822 and 2829.....	82	86	81	86
3544 and 3545.....	89	73	90	80

<sup>7</sup>1947 Industry 2037 includes Industries 2036 and 2037. Although 1947 data for Industry 2037 have not been retabulated, the ratios shown are believed to be approximately correct. 1947 employment and ratios for Industry 2036, however, are not available.

<sup>8</sup>Specialization ratio is based on percentage of value of primary products to total shipments, including primary and secondary products and miscellaneous receipts (contract and commission work on materials owned by others, scrap and salable refuse, repair, etc.)

<sup>9</sup>The value of shipments of the industry contains significant duplication of such shipments within the industry (see Introduction). The ratios shown are based on estimates of unduplicated totals and are generally minimum percentages.

<sup>10</sup>Relationships not computed because of significant duplication in shipments within the industry for which estimates are not available.

<sup>11</sup>Relationships not meaningful because of the predominance of miscellaneous receipts, particularly receipts for contract and commission work on materials owned by others.

<sup>12</sup>In 1947 a number of textile mills (Major Group 22) producing sheets and pillowcases reported such shipments as gray broad woven fabrics. This resulted in an understatement of the 1947 total value of housefurnishings and an overstatement of the coverage ratio for Industry 2392. In addition the change in reporting of fabricating departments of textile mills results in some noncomparability of the coverage ratios for 1954 and 1947.

<sup>13</sup>In 1954 data for edible and inedible stearin were reported separately and classified as primary, respectively, to Industry 2011 and Industry 2889. Since such distributions could not be made from the 1947 data, the 1947 coverage ratio, computed as 39 percent, is not directly comparable with 1954.

<sup>14</sup>These are minimum percentages. The exact percentage cannot be shown without disclosing figures for individual companies.



## Appendix B

# COMPARISON OF 1954 AND 1947 CENSUS OF MANUFACTURES INDUSTRY CLASSIFICATIONS

This appendix describes the principal changes in scope and content of 1947 and 1954 manufacturing industries as well as revisions of the 1945 edition of the Standard Industrial Classification approved by Bureau of the Budget prior to the 1954 Census. The 1954 Census is based on the November 1945 edition of the Standard Industrial Classification as amended by the Bureau of the Budget prior to that Census. For the 1954 Census, the manufacturing division comprises 20 major industry groups (two-digit groups ranging from codes 20 to 39 inclusive; group 19 is combined with group 39); 142 industry groups (three-digit codes); and 446 individual industries (four-digit codes). This represents an increase from the 1947 Census of one 3-digit group (Group 241, Logging Camps and Logging Contractors) and a decrease of seven 4-digit industries. The decrease in the number of industries reflects primarily consolidations of smaller and less significant industries.

As a whole the scope and content of 1954 and 1947 Census industries are in substantial agreement. It should be noted that both in 1954 and 1947 separate central administrative or auxiliary units of multi-establishment companies are not included in the operating manufacturing establishment totals. However, in 1954 unlike 1947, they are included in the "all manufacturing" totals shown in the Summary and State volumes. The principal changes between the industry classifications followed in the 1954 Census and those in the 1947 Census publication or the 1945 edition of the SIC Manual are discussed below:

A. The amended Standard Industrial Classification added the following establishments to the scope of manufacturing:

1. Establishments processing milk (pasteurizing, homogenizing, vitaminizing and bottling) as well as producing other dairy products are included in Group 202, Dairy Products, whether or not the processing establishments are also engaged in the route distribution of milk. In 1947 such plants were included in Trade Industries; however, supplemental data were collected from plants processing milk provided they were also engaged in producing other dairy products. These data were tabulated separately on the basis of the plant's principal manufacturing activity, except for fluid milk and cream, and excluded from manufacturing totals.

2. Establishments primarily engaged in the production of fresh (not frozen) packaged oysters and other seafood, formerly classified in Wholesale Trade, are now included in Industry 2036, Packaged Seafood.

3. Apparel and knitting jobbers and leather converters who assign materials to contract factories for fabrication for their account are included in manufacturing industries. Jobbers assigning materials fabricated on a cut-make-trim basis are classified in Major Group 23, Apparel and Related Products; jobbers supplying yarns to commission knitters in Group 225, Knitting Mills; converters assigning hides and skins for tanning and finishing in Industry 3111, Leather Tanning and Finishing. Since these apparel jobbers and leather converters were included in the scope of the 1947 Census, the revision in the Standard Industrial Classification does not affect the comparability of 1954-1947 Census data.

B. In addition to the expanded scope of manufactures arising from the amendments to the Standard Industrial Classification, the 1954 Census included the following types of establishments

which had been excluded from the 1947 Census due primarily to the difficulties involved in obtaining adequate mailing lists:

1. Logging camps and contractors (in 1954 classified in Industry 2411).

2. Sawmills producing less than 200,000 board feet of lumber (in 1954 classified in Industry 2421).

3. Gum naval stores produced in fire stills, output of which in 1947 was estimated at fifteen percent and by 1954 had declined to less than two percent of the total output of Industry 2863.

C. As a result of clarifications of the scope of manufactures in the 1945 edition of the Standard Industrial Classification, the following activities included in the 1947 Census have been excluded from the 1954 Census. The exclusion of these activities has had little effect on the overall comparability of data.

1. Retail multi-outlet bakeries producing bakery products at each location for direct sale to consumers on the premises were included in 1947 Census Industry 2051 and in Retail Trade in 1954.

2. Wool combing jobbers (establishments having wool combed for them on contract) were included in 1947 Industry 2211 and classified in Trade Industries in 1954.

3. Coke ovens owned and operated by Public Utilities were included in 1947 Industry 2932 and excluded from the scope of the 1954 Census of Manufactures, Business, and Mineral Industries.

D. The amended Standard Industrial Classification established a number of separate industries by dividing existing industries; conversely, it eliminated a number of four-digit industries by combination. Other amendments include the transfer of products from one industry to another. Since many of these amendments were consistent with Census procedures followed in 1947, the 1954-1947 data are generally comparable. Shifts of product classification are described in the text material preceding the applicable industry in the Industry Volume.

Table A below shows industries which have been significantly amended from the 1945 edition of the Industrial Classification and their 1954 Census of Manufactures equivalents—including approved Census rearrangements of the amended Standard Industrial Classification.

Table B below compares industry classifications used in the publication of the 1954 Census of Manufactures with those followed in the 1947 Census. It includes all industries which have been changed significantly in content from 1947; other industry codes and content remain substantially unchanged from 1947. The first column lists the 1954 Census industry code; the second column the equivalent 1947 industry code (an asterisked code means that only part of the 1947 industry is included). The industry titles shown are the 1954 and 1947 Census short industry titles. 1947 Census equivalent whole or parts of 1954 industries are indented below the corresponding 1954 Census titles and the following details are shown where applicable: (1) reference to the specific part of the 1947 Census industry covered and (2) reference to other 1954 industries into which the 1947 industry was distributed. The last four columns contain the 1954 and 1947 Census totals which comprise the retabulated industry data consisting of number of employees and value added by manufacture. Since the 1947 retabulated data includes adjustments to previously published data they may differ from figures shown in the 1947 Census of Manufactures.

Table A.--AMENDMENTS TO THE 1945 STANDARD INDUSTRIAL CLASSIFICATION

1954 Industry Classifications		1945 Standard Industrial Classifications	
2011	Meat packing plants.....	{	2011 Meat packing plants
		{	2012 Custom slaughtering, wholesale
2013 <sup>1</sup>	Prepared meats.....	{	2013 Prepared meats
		{	2014 Sausage casings
202	Dairy products.....	{	202 Dairy Products
		{	5052 pt Dairy products, (wholesale milk processors)
		{	5452 pt Retail milk dealers (processors of fluid milk)
2036	Packaged seafood.....	{	2037 pt Frozen fruits, vegetables and seafoods (frozen seafood). See also 2037
		{	5046 pt Fish and seafoods (fresh, not frozen, packaged fish)
2037	Packaged fruits and vegetables.....	{	2037 pt Frozen fruits, vegetables and seafoods (except frozen seafoods). See also 2036
2099	Food preparations, n.e.c.....	{	2096 Vinegar and cider
		{	2099 Food preparations, n.e.c.
2212 <sup>1</sup>	Yarn mills, wool, except carpet.....		2221 pt Yarn mills (except cotton and synthetic). See also 2224
2213 <sup>1</sup>	Woolen and worsted fabrics.....		2232 Woolen and worsted fabrics
2216 <sup>1</sup>	Finishing wool textiles.....		2262 Finishing wool textiles
2224 <sup>1</sup>	Yarn mills, cotton system.....		2221 pt Yarn mills (except wool). See also 2212
2233 <sup>1</sup>	Cotton broad-woven fabrics.....		2231 pt Broad-woven fabric mills (except synthetic). See also 2234
2234 <sup>1</sup>	Synthetic broad-woven fabrics.....		2231 pt Broad-woven fabric mills (except cotton). See also 2233
2299 <sup>2</sup>	Textile goods, n.e.c.....	{	2296 Linen goods
		{	2297 Jute goods, except felt
		{	2299 Textile goods
2421	Sawmills and planing mills.....	{	2421 Sawmills and planing mills
		{	2429 Special-product sawmills, n.e.c.
2519	Household furniture, n.e.c.....	{	2513 Reed and rattan furniture
		{	2519 Household furniture, n.e.c.
2833 <sup>1</sup>	Medicinal chemicals, including botanicals.....	{	2832 Botanical products
		{	2833 Medicinal chemicals
2865	Tanning and dyeing materials.....	{	2864 Natural dyeing materials
		{	2865 Natural tanning materials
2889	Animal oils, n.e.c.....	{	2885 Marine animal oils
		{	2889 Animal oils, n.e.c.
2999	Products of petroleum and coal, n.e.c.....	{	2991 Fuel briquets and packaged fuel
		{	2999 Products of petroleum and coal
3295	Minerals, ground and treated.....	{	3294 Natural graphite: ground, refined or blended
		{	3295 Minerals, ground and treated
3299	Nonmetallic mineral products.....	{	3296 Sand-lime brick, block, and tile
		{	M.G. 32 pt Stone, clay and glass products
3312	Blast furnaces and steel mills.....	{	3311 Blast furnaces
		{	3312 Steel works and rolling mills
3339	Primary nonferrous metals, n.e.c.....	{	3335 Primary magnesium
		{	3339 Primary nonferrous metals, n.e.c.
3439 <sup>1</sup>	Heating and cooking equipment, except electric..	{	3432 Oil burners
		{	3439 Heating and cooking equipment, except electric, n.e.c.
3463 <sup>1</sup>	Metal stampings.....	{	3462 Automobile stampings
		{	3463 Stamped and pressed metal products, except automobile stampings
	Classified according to product <sup>1</sup> .....		3464 Powder metallurgy
3544	Special dies and tools.....		3543 Cutting tools, jigs, fixtures, etc.
3545	Metalworking machine attachments.....		
3579 <sup>1</sup>	Office and store machines, n.e.c.....	{	3575 Coin operated machines
		{	3579 Office and store machines, n.e.c.
3594	Industrial patterns and molds.....	{	3998 pt Models and patterns, except paper patterns (Industrial Patterns). See also 3999
3717 <sup>1</sup>	Motor vehicles and parts.....	{	3711 Motor vehicles
		{	3712 Passenger car bodies
		{	3714 Motor vehicle parts and accessories
3999	Miscellaneous products, n.e.c.....	{	3998 pt Models and patterns (except industrial). See also 3594
		{	3999 Miscellaneous products, n.e.c.

<sup>1</sup>Represents 1954 Census combinations and rearrangements rather than amended Standard Industrial Classifications.<sup>2</sup>Industry 2296 has been combined with 2299 in the revised Standard Industrial Classification. For comparability with 1947, the Census also included Industry 2297 in the combination.



Table B.--DERIVATION OF 1947 CENSUS OF MANUFACTURES INDUSTRY DATA COMPARABLE WITH DATA FOR 1954 INDUSTRY CLASSIFICATIONS

Industry code		Industry title	1954		1947	
1954	1947		All employees, number <sup>1</sup> (1,000)	Value added by manufacture (\$1,000)	All employees, number <sup>1</sup> (1,000)	Value added by manufacture (\$1,000)
MAJOR GROUP 20--FOOD AND KINDRED PRODUCTS						
2013	.....	Prepared meats (including manufacturers' wholesale branches)..	n.a.	377,981	44.5	234,758
	2013	Prepared meats (including manufacturers' wholesale branches).....	...	...	39.0	221,855
	2825*	Synthetic fibers (synthetic sausage casings). See also 2825.....	...	...	5.5	12,903
2021	.....	Creamery butter.....	21.0	136,953	27.1	138,217
	2021	Creamery butter.....	...	...	20.6	107,248
	n.m.	Creamery butter and fluid milk processors.....	...	...	6.5	30,969
2022	.....	Natural cheese.....	13.9	88,716	12.8	65,062
	2022	Natural cheese.....	...	...	12.3	63,257
	n.m.	Natural cheese and fluid milk processors.....	...	...	.5	1,805
2023	.....	Concentrated milk.....	13.3	170,566	18.3	156,739
	2023	Concentrated milk.....	...	...	1.0	148,771
	n.m.	Concentrated and fluid milk processors.....	...	...	17.3	7,968
2024	.....	Ice cream and ices.....	36.5	327,898	46.7	279,724
	2024	Ice cream and ices.....	...	...	1.2	228,049
	n.m.	Ice cream, ices, and fluid milk processors.....	...	...	45.5	51,675
2025	.....	Special dairy products.....	7.3	56,965	7.5	48,429
	2025	Special dairy products.....	...	...	7.4	47,843
	n.m.	Special dairy products and fluid milk processors.....	...	...	.1	586
2026	n.m.	Fluid milk processors.....	14.1	98,940	n.a.	n.a.
2027	n.m.	Fluid milk processors and other dairy products.....	177.3	1,376,698	n.a.	n.a.
2036	.....	Packaged seafood.....	12.2	45,657	( <sup>2</sup> )	( <sup>2</sup> )
	2037*	Frozen foods (frozen seafoods). See also 2037.....	...	...	n.a.	n.a.
	n.m.	Fresh packaged seafood.....	...	...	n.a.	n.a.
2037	.....	Frozen fruits and vegetables.....	21.4	148,517	( <sup>2</sup> )	( <sup>2</sup> )
	2037*	Frozen foods (excluding frozen seafoods). See also 2036..	...	...	n.a.	n.a.
2099	.....	Food preparations, n.e.c.....	72.0	806,298	59.6	392,623
	2090 <sup>3</sup>	Liquid, frozen, and dried eggs.....	...	...	9.8	32,209
	2096	Vinegar and cider.....	...	...	1.0	3,503
	2099	Food preparations, n.e.c.....	...	...	48.8	356,911
MAJOR GROUP 22--TEXTILE MILL PRODUCTS						
2211	.....	Scouring and combing plants.....	7.0	35,084	8.4	36,920
	2211*	Scouring and combing plants (excluding wool scouring converters). See also n.m.....	...	...	8.4	36,920
2224	.....	Yarn mills, cotton and silk system.....	85.3	298,833	121.4	446,761
	2224	Yarn mills, cotton system.....	...	...	92.3	326,839
	2225	Yarn mills, silk system.....	...	...	1.7	5,853
	2233*	Cotton broad-woven fabrics (cotton and man-made tire cord and tire fabrics). See also 2233.....	...	...	27.4	114,069
2233	.....	Cotton broad-woven fabrics.....	296.2	1,127,507	330.2	1,448,972
	2233*	Cotton broad-woven fabrics (excluding cotton and man-made tire cord and tire fabrics). See also 2224.....	...	...	330.2	1,448,972
2295	.....	Coated fabrics, except rubberized.....	8.5	80,294	8.6	52,491
	2295*	Coated fabrics, except rubberized (excluding unsupported film). See also 3971.....	...	...	8.6	52,491
2299	.....	Textile goods, n.e.c.....	9.0	54,115	7.6	32,730
	2297	Jute (except felt), and linen goods.....	...	...	5.5	21,644
	2299	Textile goods, n.e.c.....	...	...	2.1	11,086
MAJOR GROUP 23--APPAREL AND OTHER FABRICATED TEXTILE PRODUCTS						
2337	.....	Women's suits, coats, and skirts.....	96.0	529,623	82.7	477,360
	2335	Women's suits and coats.....	...	...	74.4	438,876
	2336	Women's skirts.....	...	...	8.3	38,484
2363	.....	Children's coats.....	14.4	72,601	11.0	50,841
	2363*	Children's coats (excluding children's skirts). See also 2369.....	...	...	11.0	50,841

See footnotes at end of table.



Table B.--DERIVATION OF 1947 CENSUS OF MANUFACTURES INDUSTRY DATA COMPARABLE WITH DATA FOR 1954 INDUSTRY CLASSIFICATIONS--Con.

Industry code		Industry title	1954		1947	
1954	1947		All employees, number <sup>1</sup> (1,000)	Value added by manufacture (\$1,000)	All employees, number <sup>1</sup> (1,000)	Value added by manufacture (\$1,000)
		MAJOR GROUP 22--TEXTILE MILL PRODUCTS--Continued				
2369	.....	Children's outerwear, n.e.c.....	30.6	121,863	14.8	50,645
2369		Children's outerwear, n.e.c.....	...	...	13.6	44,248
2363*		Children's coats (children's skirts). See also 2363.....	...	...	1.2	6,397
		MAJOR GROUP 24--LUMBER AND PRODUCTS, EXCEPT FURNITURE				
2431	.....	Millwork plants.....	68.7	374,518	59.8	266,452
2431*		Millwork plants (excluding retail lumber yards). See also n.m.....	...	...	56.9	253,322
2561*		Window and door screens (wood storm doors and sash). See also 2561.....	...	...	2.9	13,130
		MAJOR GROUP 25--FURNITURE AND FIXTURES				
2519	.....	Household furniture, n.e.c.....	1.3	7,815	1.7	7,738
2513		Reed and rattan furniture.....	...	...	.8	3,697
2519		Household furniture, n.e.c.....	...	...	.9	4,041
2532	.....	Professional furniture.....	5.5	38,228	5.2	25,674
2532*		Professional furniture (excluding beauty and barber-shop- equipment). See also 3991.....	...	...	5.2	25,674
2561	.....	Window and door screens.....	4.4	32,630	4.2	19,166
2561*		Window and door screens (excluding wood and metal storm doors and sash). See 2431 and 3442.....	...	...	4.2	19,166
		MAJOR GROUP 26--PAPER AND ALLIED PRODUCTS				
2612	.....	Paper and paperboard mills.....	142.2	1,429,659	134.2	947,868
2612*		Paper and board mills (excluding building paper and board mills). See also 2613.....	...	...	134.2	947,868
2613	.....	Building paper and board mills.....	16.4	155,415	13.4	99,007
2612*		Paper and board mills (building paper and board mills). See also 2612.....	...	...	13.4	99,007
		MAJOR GROUP 28--CHEMICALS AND ALLIED PRODUCTS				
2811	.....	Sulfuric acid.....	3.8	66,175	3.1	31,097
2819*		Inorganic chemicals, n.e.c. (sulfuric acid). See 2819 and n.m.....	...	...	3.1	31,097
2819	.....	Inorganic chemicals, n.e.c.....	97.0	1,069,335	39.5	280,219
2819*		Inorganic chemicals, n.e.c. (excluding sulfuric acid). See 2811 and n.m.....	...	...	39.5	280,219
2822	.....	Intermediates and organic colors.....	32.7	362,305	33.6	259,771
2829*		Organic chemicals, n.e.c. (intermediates, dyes, color lakes and toners). See also 2829.....	...	...	33.6	259,771
2823	.....	Plastics materials.....	41.1	583,224	28.6	197,558
2823		Plastics materials.....	...	...	28.2	195,869
2825*		Synthetic fibers (cellulose caps, bands and sponges). See also 2825.....	...	...	.4	1,689
2825	.....	Synthetic fibers.....	61.1	717,226	69.7	433,285
2825*		Synthetic fibers (excluding synthetic sausage casings and cellulose caps, bands and sponges). See 2013 and 2823...	...	...	69.7	433,285
2829	.....	Organic chemicals, n.e.c.....	67.5	1,171,165	51.9	456,319
2829*		Organic chemicals, n.e.c. (excluding intermediates, dyes, color lakes and toners). See also 2822.....	...	...	51.9	456,319
2832	.....	Medicinal chemicals, including botanicals.....	11.5	138,877	13.1	119,525
2832		Botanical products.....	...	...	.7	9,009
2833		Medicinal chemicals.....	...	...	12.4	110,516
2863	.....	Gum naval stores.....	.5	2,473	4.6	42,634
2863		Gum naval stores, steam distilled.....	...	...	.6	2,634
(4)		Gum naval stores, fire distilled.....	...	...	(4)	(4)
2889	.....	Animal oils, n.e.c.....	2.3	22,079	2.2	16,849
2885		Marine animal oils.....	...	...	2.0	15,033
2889		Animal oils, n.e.c.....	...	...	.2	1,816

See footnotes at end of table.

Table B.--DERIVATION OF 1947 CENSUS OF MANUFACTURES INDUSTRY DATA COMPARABLE WITH DATA FOR 1954 INDUSTRY CLASSIFICATIONS--Con.

Industry code		Industry title	1954		1947	
1954	1947		All employees, number <sup>1</sup> (1,000)	Value added by manufacture (\$1,000)	All employees, number <sup>1</sup> (1,000)	Value added by manufacture (\$1,000)
		MAJOR GROUP 28--CHEMICALS AND ALLIED PRODUCTS--Continued				
2894	.....	Glue and gelatin.....	6.8	64,771	7.9	60,000
2894		Glue and gelatin.....	...	...	5.3	45,346
2899*		Chemical products, n.e.c. (household adhesives and cements). See also 2899.....	...	...	2.6	20,944
2899	.....	Chemical products, n.e.c.....	21.4	266,627	17.6	159,514
2899*		Chemical products, n.e.c. (excluding adhesives, cements, brake fluids, etc.). See 2894 and 2992.....	...	...	17.6	159,514
		MAJOR GROUP 29--PETROLEUM AND COAL PRODUCTS				
2932	.....	Byproduct coke ovens.....	31.9	371,380	29.7	221,352
2932*		Byproduct coke ovens (excluding byproduct coke ovens owned by Public Utilities). See also n.m.....	...	...	29.7	221,352
2992	.....	Lubricants, n.e.c.....	8.2	85,063	8.0	80,289
2992*		Lubricants, n.e.c. (excluding lubricant wholesalers). See also n.m.....	...	...	6.1	66,725
2899*		Chemical products, n.e.c. (brake fluids, etc.). See also 2899.....	...	...	1.9	13,564
2999	.....	Petroleum and coal products, n.e.c.....	2.0	22,754	1.7	17,354
2991		Fuel briquets and packaged fuel.....	...	...	1.2	9,093
2999		Petroleum and coal products, n.e.c.....	...	...	.5	8,261
		MAJOR GROUP 32--STONE, CLAY, AND GLASS PRODUCTS				
3231	.....	Products of purchased glass.....	21.6	192,644	23.9	129,857
3231*		Products of purchased glass (excluding glass cutters). See also n.m.....	...	...	23.9	129,857
3295	.....	Minerals: ground or treated.....	7.7	89,725	8.9	55,556
3294		Graphite: ground or blended.....	...	...	.9	4,945
3295		Minerals: ground or treated.....	...	...	8.0	50,611
3299	.....	Nonmetallic mineral products, n.e.c.....	4.5	30,340	2.6	13,855
3296		Sand-lime products.....	...	...	.3	1,186
3299		Nonmetallic mineral products, n.e.c.....	...	...	2.3	12,669
		MAJOR GROUP 34--FABRICATED METAL PRODUCTS				
3439	.....	Heating and cooking equipment, n.e.c.....	75.3	587,523	116.8	633,675
3432		Oil burners.....	...	...	5.3	43,894
3439		Heating and cooking apparatus, n.e.c.....	...	...	111.5	589,781
3442	.....	Metal doors, sash, and trim.....	43.3	334,956	23.3	129,366
3442		Metal doors, sash, and trim.....	...	...	21.0	117,246
2561*		Window and door screens (metal storm doors and sash). See also 2561.....	...	...	2.3	12,120
		MAJOR GROUP 35--MACHINERY (EXCEPT ELECTRICAL)				
3544	.....	Special dies and tools.....	77.4	697,004	( <sup>5</sup> )	( <sup>5</sup> )
3543*		Cutting tools, jigs, fixtures, etc. (special dies and tools). See also 3545.....	...	...	n.a.	n.a.
3545	.....	Metalworking machinery attachments.....	44.9	351,607	( <sup>5</sup> )	( <sup>5</sup> )
3543*		Cutting tools, jigs, fixtures, etc. (excluding special dies and tools). See also 3544.....	...	...	n.a.	n.a.
3559	.....	Special-industry machinery, n.e.c.....	47.0	352,943	58.6	294,236
3559*		Special-industry machinery, n.e.c. (excluding industrial patterns and molds). See also 3594.....	...	...	58.6	294,236
3594	.....	Industrial patterns and molds.....	19.9	152,049	9.7	55,954
3559*		Special-industry machinery, n.e.c. (industrial patterns and molds). See also 3559.....	...	...	9.7	55,954
		MAJOR GROUP 36--ELECTRICAL MACHINERY				
3616	.....	Electrical control apparatus.....	79.3	700,477	67.5	358,431
3616*		Electrical control apparatus (excluding domestic automatic controls). See also 3821.....	...	...	67.5	358,431
3631	.....	Insulated wire and cable.....	14.4	110,317	20.3	99,661
3631*		Insulated wire and cable (excluding appliance cords from purchased insulated wire). See also 3699.....	...	...	20.3	99,661

See footnotes at end of table.

Table B.--DERIVATION OF 1947 CENSUS OF MANUFACTURES INDUSTRY DATA COMPARABLE WITH DATA FOR 1954 INDUSTRY CLASSIFICATIONS--Con.

Industry code		Industry title	1954		1947	
1954	1947		All employees, number <sup>1</sup> (1,000)	Value added by manufacture (\$1,000)	All employees, number <sup>1</sup> (1,000)	Value added by manufacture (\$1,000)
3699	.....	Electrical products, n.e.c.....	8.5	60,472	10.3	54,994
3699	.....	Electrical products, n.e.c.....	...	...	8.7	48,786
3631*	.....	Insulated wire and cable (appliance cords from purchased insulated wire). See also 3631.....	...	...	1.6	6,208
MAJOR GROUP 38--INSTRUMENTS AND RELATED PRODUCTS						
3821	.....	Mechanical measuring instruments.....	69.4	542,602	60.5	281,482
3821	.....	Mechanical measuring instruments.....	...	...	52.4	240,069
3616*	.....	Electrical control apparatus (domestic automatic controls). See also 3616.....	...	...	8.1	41,413
MAJOR GROUP 39--MISCELLANEOUS MANUFACTURES						
3971	.....	Plastics products, n.e.c.....	92.0	589,254	58.4	258,917
3971	.....	Plastics products, n.e.c.....	...	...	57.5	252,069
2295*	.....	Coated fabrics, except rubberized (unsupported film). See also 2295.....	...	...	.9	6,848
3991	.....	Beauty and barber-shop equipment.....	1.7	11,963	3.2	14,386
3991	.....	Beauty and barber-shop equipment.....	...	...	2.8	12,594
2532*	.....	Professional furniture (beauty and barber-shop equipment). See also 2532.....	...	...	.4	1,792
3999	.....	Miscellaneous products, n.e.c.....	20.8	123,805	22.7	102,427
3998	.....	Models and patterns excluding industrial and paper patterns and molds.....	...	...	1.9	8,573
3999	.....	Miscellaneous products, n.e.c.....	...	...	20.8	93,854
ESTABLISHMENTS EXCLUDED FROM SCOPE OF 1954 CENSUS OF MANUFACTURES						
n.m.	.....	Total.....	...	...	9.7	84,568
2211*	.....	Scouring and combing plants (wool scouring converters)....	...	...	.3	17,246
2431*	.....	Millwork plants (retail lumber yards).....	...	...	.7	3,077
2819*	.....	Inorganic chemicals, n.e.c. (mining).....	...	...	.9	11,432
2932*	.....	Byproduct coke ovens (byproduct coke ovens owned by Public Utilities).....	...	...	5.9	41,635
2992*	.....	Lubricants, n.e.c. (lubricant wholesalers).....	...	...	.1	2,211
3231*	.....	Products of purchased glass (glass cutters).....	...	...	.4	3,258
.....	.....	Other nonmanufacturing establishments.....	...	...	1.4	5,709

\*Denotes part. n.a. Not available. n.m. Nonmanufacturing. n.e.c. Not elsewhere classified.

<sup>1</sup>The number of employees for 1954 for industries other than 2036, 2037, 2099, 2295, and 2889 of this table are based on employment averages for payroll periods ending nearest the 15th of March, May, August, and November. For industries 2036, 2037, 2099, 2295, and 2889 the number of employees are based on the average on the payroll during pay periods ended nearest the 15th of each of the 12 months. For 1947, the employment figure for all industries represents the average on the payroll during pay periods ended nearest the 15th of each of the 12 months.

<sup>2</sup>Packaged seafood and frozen fruits and vegetables formerly constituted one industry; however, fresh packaged seafood was not included in manufacturing in 1947. 1947 employment and value added for 1954 industries 2036 and 2037 combined (excluding fresh packaged seafood) are 17.4 thousand and \$59,377 thousand, respectively. Total fresh packaged seafood shipped in 1954 amounted to \$53,552 thousand.

<sup>3</sup>Industry 2090 in 1947 was a Census subindustry of 2099.

<sup>4</sup>Fire stills were excluded from the scope of the 1947 Census. In 1947 fire stills accounted for 15 percent of the total value of products; by 1954 practically all of the production was accounted for by steam (central) stills.

<sup>5</sup>Special dies and tools (industry 3544) and metalworking machinery attachments (industry 3545) constituted industry 3543 in 1947. Comparable 1947 employment and value added for industries 3544 and 3545 combined are 95.9 thousand and \$501,995 thousand, respectively.



## Appendix C

### CENSUS REPORT FORMS AND PUNCH CARDS

Approximately 200 different report forms ("standard" forms) were used in collecting information in the 1954 Census of Manufactures. Nearly all of these were variations of Form MC-35U shown on pages App. C-2 thru 10 of this appendix. Such forms were sent to larger manufacturing plants (generally those with six or more employees). Items 1 through 16 are the same on nearly all such forms except for item 9, "Number of Employees by Months," which appears on report forms for a few industries characterized by marked seasonal variations in employment. Items 17 and 18, while similar in general purpose, are different for each industry or group of related industries depending upon the materials used or the products manufactured. Items 19 and 20 are similarly adapted to the special characteristics of individual industries.

Five simplified report forms ("short" forms) were used for smaller establishments, i.e., those with less than six employees. The General Manufactures Form MC-D2, shown on pages App. C-16 thru 19, was sent to small establishments in all but four industry areas: (a) Dairy Products, (b) Logs, Lumber and Other Wood Basic Materials, (c) Printing and Publishing, and (d) Concrete Products; for these groups special short forms were prepared. The general inquiries (items 1-10) included for forms used for the smaller establishments are the same and are considerably abridged in comparison with these items included in the stand-

ard forms sent to larger establishments. The product inquiry on Form MC-D2 requested the manufacturer to report value of shipments for classes of products as described in a Product Class Reference List which was enclosed with the form. Plants in the four selected industry areas, however, received forms with a preprinted list of individual products suitable to the industry. The need for such special forms arose after it was determined that product data for these areas were significantly affected by the output of smaller plants. A preprinted list of materials consumed was also included on the forms for certain of these special industries.

Instructions for preparing the 1954 Census report forms are also shown below except for Form MC-D2 and its four variations. Short form respondents were sent the Product Class Reference List described above with the other instructions appearing on the form itself.

Additional forms used to cover separate central administrative offices and auxiliary units, plants under construction but not in operation during 1954, plants using 20 million or more gallons of water during 1954, etc., are described in Section 9 of the introductory text which appears at the beginning of this Volume.

The basic punch cards used in tabulating the 1954 Census data are shown on pages App. C-20 and 21.

U. S. DEPARTMENT OF COMMERCE—BUREAU OF THE CENSUS

# 1954 CENSUS OF MANUFACTURES

# MEASURING AND DISPENSING PUMPS

## FORM MC-35U

[illegible]

**Factory, plant, or mill covered by this report:**

ITEM 1 NAME OF ESTABLISH- MENT	Factory, plant, or mill covered by this report:	ITEM 5 COMPANY AFFILIATION	a. Is this company (identified by the num- ber given in Item 4a) owned or controlled by another company?..... Yes <input type="checkbox"/> No <input type="checkbox"/> b. If "Yes," give name and address of owning or controlling company:
ITEM 2 LOCATION OF ESTAB- LISHMENT	Give actual physical location of this establishment (which may differ from business mailing address). a. Street _____ and number _____ b. City, town, _____ or village _____ c. County _____ d. State _____ e. Is this establishment within the actual legal boundaries of any city or town?..... Yes <input type="checkbox"/> No <input type="checkbox"/> f. If "Yes," give official name of city or town. (If same as Item 2b, write "same.")	ITEM 6 FORM OF OWNERSHIP	c. Does this company (identified by the num- ber given in Item 4a) own or control another company?..... Yes <input type="checkbox"/> No <input type="checkbox"/> Check one: (1) <input type="checkbox"/> Individual proprietor (x) <input type="checkbox"/> Partnership (Specify number of working partners _____) (v) <input type="checkbox"/> Corporation (Do not include any form of cooperative association) (o) <input type="checkbox"/> Cooperative association (corporate or noncorporate pro- ducer-cooperatives and cooperative marketing associations) (o) <input type="checkbox"/> Other (Specify) _____
ITEM 3 NATURE OF ACTIVITY	If "No," see enclosed instructions for Item 2. Describe briefly the kind of activity of this establishment:	ITEM 7 CHANGE IN STATUS OR OWNERSHIP OF THIS ESTABLISH- MENT SINCE DECEMBER 31, 1953	Change in status since December 31, 1953 (Check one): a. <input type="checkbox"/> Owned and operated by you during all of 1954 b.* <input type="checkbox"/> Purchased by you on _____ (date) c.* <input type="checkbox"/> Sold by you on _____ (date) d. <input type="checkbox"/> Did not operate in 1954 (but still owned by you) e.* <input type="checkbox"/> Went out of business (no new owner) on _____ (date) Give name and address of former owner (if box "b" is checked) or purchaser (if box "c" is checked):
ITEM 4 FED. SOCIAL SECURITY EMPLOYER IDENTIFICA- TION NUMBER	a. Federal Social Security Employer Identifica- tion Number. (Enter number as reported on Form 941, Item 10, on latest employer's quarterly tax return under Federal Insur- ance Contributions Act)..... b. Number of separate places of business operated under this Em- ployer Identification Number.... One <input type="checkbox"/> Two or more <input type="checkbox"/>	*Complete report for part of 1954 you operated this plant.	



ITEM 8 EMPLOYMENT AND PAYROLLS IN 1954	Class of employee	Number of employees in 1954						Total 1954 payroll (wages, salaries, bonuses, commis- sions, and other remunerations paid in entire year, before deductions) (omit cents) (G)	
		Pay period ended nearest 15th of—				Sum of Cols. (A) through (D) (E)	Average employment (Divide Col. (E) sums by 4) (F)		
		March (A)	May (B)	August (C)	November (D)				
a. Production and related workers	Workers (up through the working foreman level) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping (but not delivering), maintenance, repair, janitorial, watchman services, product development, auxiliary production for plant's own use (e. g., power plant), record keeping, and other services closely associated with these production operations. Exclude supervisory employees above working foreman level.							A1, B1 (F)	A2 (G)
b. Force- account construction workers	Employees on your payroll who are engaged in construction of major additions or alterations to the plant and are utilized as a separate work force. (Workers engaged in regular maintenance and repair operations should be reported in Item 8a, not here).							B2	\$
c. All other employees	Nonproduction personnel of this establishment, including those engaged in the following activities: factory supervision above working foreman level, sales (including driver salesmen), sales delivery (highway truck drivers and their helpers), advertising, credit, collection, installation and servicing of own products, clerical and routine office functions, executive, purchasing, finance, legal, personnel (including cafeteria, medical, etc.), professional, and technical.							B3	\$
d. TOTAL FOR THIS ESTABLISHMENT (Sum of a, b, and c) .....									\$
ITEM 9	(Not applicable to this industry)								
ITEM 10	MAN-HOURS OF PRODUCTION AND RELATED WORKERS, BY QUARTER	1954 Quarterly period—						Census Use Only	
	Enter the total number of plant man-hours of production and related workers (as defined in Item 8a) for each calendar quarter (or comparable 13 week period) of 1954. Do not include hours paid for vacations, holidays or sick leave.					Man-hours (omit fractions)		A6, C1, G1	
		January through March.....							
		April through June.....						A7, G2	
		July through September.....							
		October through December.....						A8, G3	A9
		TOTAL, 1954.....				A5			
ITEM 11	SUMMARY OF MATERIALS, FUELS, AND ELECTRIC ENERGY; CONTRACT WORK; AND COST OF RESALES DURING 1954	Item						Cost (omit cents)	
	On lines a and c, report the cost of all items actually consumed or put into production in 1954, whether purchased, withdrawn from inventories, or received from other establishments of this company. If your records do not show actual amounts consumed, this may be computed by adding purchases (or receipts) during the year to opening inventory and subtracting closing inventory. Purchase records instead of consumption records may be used for any major material, if purchases closely approximate consumption, and for all minor materials and supply items.	C2							
	a. Materials, parts, containers, and supplies consumed during 1954. Include consumption of all raw materials, parts and components, containers, and supplies. (Should be the same as total of Item 17)....							\$	
	b. Cost of products bought and resold without further manufacture, processing, or assembly in this establishment during 1954.....							\$	
	c. Fuels consumed during 1954 (Should be the same as Item 12a, 6).....							\$	
	d. Electric energy purchased during 1954 (Should be the same as Item 12b, 1).....							\$	
	e. Cost of work done for you by others on your own materials during 1954 (contract work).....							\$	
	f. TOTAL (Sum of a, b, c, d, and e).....							\$	



ITEM 12	Item (A)	Code	Unit of measure (B)	Quantity (C)	Cost (omit cents) (D)
FUELS AND ELECTRIC ENERGY a. Fuels consumed during 1954	Report quantities in units specified; report <b>total</b> delivered cost, not cost per unit. Check the kinds of fuel used:	D1		D2	D3
	1. Coal: (11) <input type="checkbox"/> Bituminous or lignite (12) <input type="checkbox"/> Pennsylvania anthracite		Short ton		\$
	2. Coke		Short ton		\$
	3. Fuel oil: (31) <input type="checkbox"/> Distillate (light) (32) <input type="checkbox"/> Residual (heavy)	20	Bbl. (42 gals.)		\$
	4. Gas: (41) <input type="checkbox"/> Natural (42) <input type="checkbox"/> Manufactured or mixed		M cu. ft.		\$
b. Electric energy during 1954	5. Other fuels: <input type="checkbox"/> Gasoline <input type="checkbox"/> Liquefied petroleum gas <input type="checkbox"/> Wood <input type="checkbox"/> Other	50			\$
	6. TOTAL (Sum of lines 1 through 5; should be the same as Item 11c)				\$
	1. Purchased (Should be the same as Item 11d. Exclude energy purchased for resale)		kw.-hr.	E1	E2
	2. Generated (gross, less generating-station use)		kw.-hr.	E3	E5 ↓
	3. Sold (in "Cost" column, report value of electric energy sold)		kw.-hr.	E4	\$
ITEM 13	a. Total quantity of water intake in this establishment during entire year 1954 (Check one): (1) <input type="checkbox"/> 20 million gallons or more per year (2) <input type="checkbox"/> 10 to 20 million gallons per year (3) <input type="checkbox"/> 1 to 10 million gallons per year (4) <input type="checkbox"/> Less than 1 million gallons per year				
INDUSTRIAL WATER USE DURING 1954	b. Kind of water used (Check one): (1) <input type="checkbox"/> Fresh water (2) <input type="checkbox"/> Brackish (salt) water from the ocean, ponds, or wells (3) <input type="checkbox"/> Both				
	c. Check principal source (1) <input type="checkbox"/> Public water systems (municipally or privately owned) (2) <input type="checkbox"/> Company surface water systems, such as streams or lakes (3) <input type="checkbox"/> Company ground water systems, such as wells or deep springs				
	The figures should represent total horsepower rating of equipment in use or available for use at end of 1954. Report the horsepower rating indicated on name plates.				
ITEM 14 HORSEPOWER RATING OF POWER EQUIPMENT, AT END OF 1954	Kind of power equipment	Total horsepower rating (At end of year)	Kind of inventory	Beginning of 1954 (omit cents) (A)	End of 1954 (omit cents) (B)
	a. Internal combustion engines, steam engines and turbines, and other prime movers, except for highway-type equipment:	E6	a. Inventories of finished products	F1	F5
	1. Driving generators	hp.	b. Inventories of work-in-process		\$
	2. Not driving generators	hp.	c. Inventories of materials, supplies, fuel, etc.		\$
	b. Electric motors (one horsepower and over)	E8	d. TOTAL INVENTORIES (Sum of a, b, and c)		\$
ITEM 16 CAPITAL EXPENDITURES FOR THIS ESTABLISHMENT DURING 1954 (Exclude expenditures for land)	Expenditures refer to all costs actually incurred during 1954 which are chargeable to the fixed assets accounts of this establishment and which are of the type for which depreciation accounts are ordinarily maintained. Do not include cost of maintenance and repairs charged as current operating expense. During 1954, did you make any expenditures for this establishment of the kind described above? (Check one) <input type="checkbox"/> Yes <input type="checkbox"/> No If "Yes," supply figures:				
	Type of capital expenditures (excluding land)			Expenditures (omit cents)	
	a. New structures and additions to plant (including major alterations, capitalized repairs and improvements)			G5	Census Use Only
	b. New machinery and new equipment (including capitalized repairs and improvements)			\$	
	c. Expenditures for used plant and used equipment acquired from others			\$	
d. TOTAL CAPITAL EXPENDITURES (Sum of a, b, and c)			\$		

## ITEM 17

SELECTED  
MATERIALS  
CONSUMED  
DURING  
1954

**General.**—This inquiry calls for a breakdown of the cost of all materials and components, parts, containers, and supplies consumed during 1954, as reported in Item 11a on reverse. Separate figures are required for each material listed below if your consumption of the material during 1954 amounted to \$5,000 or more. The cost of materials, supplies, etc., which are not listed or, if listed, are not reported separately because their value is estimated at less than \$5,000, should be reported on the line for "All other materials and components, parts, containers, and supplies consumed." The total cost in Item 17 should, therefore, agree with Item 11a.

**Consumption of Materials Received From Other Establishments (Col. (D) and Col. (E)).**—Report in these columns the quantities and delivered cost of each of the listed materials actually consumed or put into production during the year, whether purchased, withdrawn from inventories, or received from other establishments of this company.

**Quantity (Col. (D)).**—Report the quantities actually consumed in the unit of measure specified. If you do not maintain actual consumption records, but if purchases closely approximate consumption, your purchase figures may be used in completing the item. However, if for one of the items specifically listed, consumption differs significantly from purchases, please derive consumption figures by adding beginning inventory to

purchases during the year and then subtracting closing inventory. Purchase data may be reported for minor materials and supply items.

**Delivered Cost (Col. (E)).**—Report amounts actually paid or payable after discounts, and include freight and direct charges incurred in acquiring the quantities of the listed materials consumed during 1954. For materials transferred from other establishments of this company, report the nearest approximation to the commercial value of the material.

**Consumption of Materials Produced in This Establishment (Quantity) (Col. (F)).**—Report the quantities of each listed material which were made and consumed in further fabrication or assembly within the same establishment.

**Derived Unit Cost (Col. (E) Divided by Col. (D)).**—This computation is included as an aid to you and the Census Bureau in assuring that this part of your report has been filled out correctly. Please examine the derived unit costs to make sure that the correct unit of measure (Column (C)) has been used and that the quantities and costs entered are consistent.

**All Other Materials and Components, Etc. (Line 10).**—This figure may be derived by subtracting the sum of the material costs on lines 1-9 from the total cost of all materials, parts, containers, and supplies consumed during 1954, as reported in Item 11a.

Material (A)	Line No. (B)	Unit of measure (C)	Consumption of materials received from other establishments		Consumption of materials produced in this establishment (quantity) (F)	Derived unit cost (Col. (E) divided by Col. (D))
			Quantity (D)	Delivered cost (omit cents) (E)		
<b>Mill Shapes and Forms (except castings)</b>						
Copper and copper-base alloy						
Bare wire.....	1	Thousand pounds		\$		\$
Insulated wire and cable (report copper content in quantity column).....	2	Thousand pounds		\$		\$
All other copper and copper-base alloy mill shapes and forms.....	3	Thousand pounds		\$		\$
Aluminum and aluminum-base alloy mill shapes and forms (rolled, drawn, and extruded).....	4	Thousand pounds		\$		\$
<b>Castings (rough and semifinished, received from foundry)</b>						
Iron (gray and malleable).....	5	Short ton		\$		\$
Copper and copper-base alloy.....	6	Thousand pounds		\$		\$
Aluminum and aluminum-base alloy.....	7	Thousand pounds		\$		\$
<b>Fractional Horsepower Electric Motors</b> .....	8	Number		\$		\$
<b>Integral Horsepower Electric Motors and Generators</b> .....	9	Number		\$		\$
<b>All Other Materials and Components, Parts, Containers, and Supplies Consumed</b> .....	10			\$		\$
<b>Total (Sum of lines 1-10; should be the same as Item 11a)</b> .....	11			\$		\$



ITEM 18 PRODUCTS AND SERVICES OF THIS ESTABLISH- MENT DURING 1954	<p>Report separately each product listed; do not combine product lines.</p> <p><b>Production for All Purposes (Col. (C)).</b>—Report in this column the total amount of each specified product made in this establishment during 1954, whether sold, transferred, added to inventory, or used in further processing.</p> <p><b>Total Shipments and Interplant Transfers (Col. (D) and Col. (E)).</b>—Report in these columns the quantity and selling value f. o. b. plant of all products made in this establishment which were physically shipped from this establishment during 1954. Include products shipped on consignment, whether or not sold at the end of the year. Deduct returned goods.</p> <p>For value of shipments, report the net selling value f. o. b. plant of your total shipments of each product listed. The reported figures should represent values f. o. b. plant after discounts and allowances and should not include freight charges or excise taxes.</p>	K	Line No.	Unit of measure (B)	Production for all purposes (quantity) (C)	Total shipments and interplant transfers		Census product code (J)	Derived unit value (Col. (E) divided by Col. (D))
		(A)			Quantity (D)	Value f. o. b. plant (omit cents) (E)			
2. Products Made in this Establishment	Gasoline dispensing pumps								
	Filling station type (in columns (C) and (D), report twin pumps as two units)								
	Computing.....	1	Number of units		\$		35860 11	\$	
	Noncomputing.....	2	Number of units		\$		35860 13	\$	
	Airport fueling units (Report number of meters in columns (C) and (D)).....	3	Number of units		\$		35860 15	\$	
	Lubricating-oil outfits (Includes pump and tank).....	4	Number of units		\$		35860 21	\$	
	Lubricating-oil pumps (Include barrel pumps).....	5	Number of units		\$		35860 31	\$	
	Grease pumps.....	6	Number of units		\$		35860 41	\$	
	Grease guns.....	7	Number of units		\$		35860 51	\$	
	Other measuring and dispensing pumps (Specify kind)	8	Number of units		\$		35860 98	\$	
	9	Number of units		\$		35860 98	\$		
Air compressors, stationary, 7½ hp. and under (Include automotive type).....	10	Number of units		\$		35613 11	\$		



	All Other Products (Specify kind and unit of measure)	11					\$	\$	
		12					\$	\$	
		13					\$	\$	
		14					\$	\$	
		15					\$	\$	
b. Contract Work	Receipts for work done for others on their own materials (Describe products worked on and kind of work)	16					\$	93000 00	
c. Miscellaneous Receipts	Sales of scrap and refuse	17				J1	\$		
	Receipts for repair work	18				J2	\$		
	Receipts for installation (or construction) of products of this establishment	19				J3	\$		
	Receipts for research and developmental work	20				J4	\$		
d. Resales	Sales of products bought and resold without further manufacture, processing, or assembly in this establishment	21				J5	\$		
e. TOTAL (Sum of lines 1-21)		22				J6	\$		J7 For Census Use Only

[illegible]





	<p><b>ITEM 22</b></p>	<p>Name and address of person who should be contacted if questions arise regarding this report</p>	<p>Telephone No.</p>
	<p><b>ITEM 23 CERTIFICATION</b></p>	<p>This report is substantially accurate and covers the period from ..... to .....</p> <p>..... Date ..... Title ..... Signature of authorized person .....</p>	

## DEPARTMENT OF COMMERCE

## BUREAU OF THE CENSUS

## 1954 CENSUS OF MANUFACTURES

GENERAL INSTRUCTIONS TO MANUFACTURERS  
FOR PREPARING REPORTS

## INTRODUCTION

## A. WHO SHOULD REPORT?

Every concern which receives a form is required to submit a separate census report for each of its manufacturing establishments in the Continental United States, Alaska, and Hawaii. Concerns with more than one

establishment must submit a separate report for each establishment operated during 1954. Your report should be returned to the Census Office shown on the enclosed envelope *within 30 days of its receipt*.

## B. WHAT IS A MANUFACTURING ESTABLISHMENT?

A manufacturing establishment is generally defined as a single physical location where industrial operations are performed; for example, a factory, mill, or plant. Where a single physical location comprises two or more units which are engaged in distinct or separate manufacturing activities, and for which separate records are available or for which substantially accurate reports can be prepared, each such unit shall be treated as a separate establishment. In the preparation of such reports a limited amount of prorating or estimating may be necessary. An establishment is not necessarily identical with the business concern or firm which may consist of one or more establishments. It is also to be distinguished from organizational subunits, departments or divisions within an establishment. Units at different physical locations, even though engaged in the same line of manufacturing,

processing, and assembly, should be reported as separate establishments.

Where agreements were reached by your company with the Bureau of the Census concerning the definition of your manufacturing plants for reporting in the 1947 Census of Manufactures or subsequent Annual Surveys of Manufactures, the same definitions should be used in this Census. (However, it is necessary to prepare a separate report for *each* enclosed manufactures form imprinted with a specific plant name and address.)

If additional report forms are required, please write the Bureau of the Census, indicating the type of activity which is not covered by the form(s) sent you. (NOTE.—If you received a copy of Form NC-X2, use it to request such additional forms.)

## C. WHAT KIND OF ACTIVITIES SHOULD THE ESTABLISHMENT REPORTS COVER?

Each report should cover all the production activities (manufacturing, fabricating, processing, and assembling) *conducted within the establishment*. It should also include activities such as the generation of power for the plant, maintenance of plant and equipment, receiving, shipping, warehousing, storage, research, record keeping, health, safety, cafeteria, and other services, *when carried on at the same physical location by the manufacturing*

*establishment*. Your report should *exclude* sales branches, sales offices, power plants, research laboratories, retail stores, and general administrative offices, *if they are operated as separate establishments*. Separate Census reports should be submitted for each of these establishments. Business concerns operating more than one establishment should refer to the instructions defining an establishment on the company summary form NC-X7.

## D. WHAT PERIOD SHOULD EACH REPORT COVER?

Each report should cover the calendar year 1954. If your book records are not on a calendar year basis, carefully prepared estimates for this period will be accepted. If, however, this procedure will involve you in considerable additional costs, and agreements were reached by your company with the Census Bureau in regard to reporting on a fiscal year basis in the 1947 Census or subsequent Annual Surveys of Manufactures, you may report on a fiscal basis. As in the 1947 Census and in the Annual Surveys of Manufactures, however, all employment,

payroll, and man-hour figures should relate to the *calendar* year rather than the fiscal year.

The dates given in the certification should show the exact period for which this report is made. Thus, if an establishment began to operate or ceased to operate within the year, the dates given will show that only part of a year is covered by the report. Where an establishment was operated during the early part of the year under other management, complete the report only for that part of the year 1954 in which you operated.

### E. HOW SHOULD MULTIPLE ESTABLISHMENT COMPANIES DETERMINE TRANSFER VALUES FOR INDIVIDUAL PRODUCTS AND MATERIALS?

In order to provide accurate information for individual industries, States, and local areas, it is necessary for each establishment of a multiple plant organization to report as though it were operated as an independent manufacturing establishment. For example, where a single company operates a textile mill and also manufactures apparel, the transfer of fabrics from one establishment to the other should be reported at *approximately commercial value* and *not* at the cost of production. This requires that a company operating two or more plants assign to each plant and to the individual products a reasonable proportion of the profits and the overhead costs. The method found by each company to be most convenient will ordinarily be acceptable to the Census Bureau. It is recognized that estimates will often be involved.

If the product section of the form (item 18) calls for "interplant transfers" separately, it means transfers between *manufacturing* plants of your company. Interplant transfers should *not* include transfers to separate selling departments, sales branches, retail stores, export subsidiaries or other distribution channels owned by your company. The products reported at "transfer values" by the shipping plant should be reported by the receiving plant as materials consumed (or inventories of materials, etc.) at the same values, except for the addition of freight and other direct handling charges.

These instructions apply to all establishments for which separate reports are being submitted, including those at the same location as well as those at different locations.

### ITEMS ON THE REPORT FORM

(NOTE.—An entry is required in each item on the form. If the answer is none, enter "none" or "0." If a particular question does not apply to your business, enter "not applicable" or explain briefly in the "Remarks" space.)

**Item 1. Name of Establishment (Factory, Plant, or Mill).**—Enter the name under which the establishment covered by this report does business. If it is one of several establishments doing business under the same name, also give the name or number by which it is distinguished from the other establishments of the same company. For example: "Atlas Steel Co., Centerville Plant." If it is one of several establishments at the same address, it is important that you indicate type of activity; for example, "Acme Textile Co., Third Street Mill Finishing Department."

**Item 2. Location of Establishment.**—Enter the *actual physical location* of your factory, plant, or mill (which may differ from the business address at which mail is received) in Items 2a through 2d. If the establishment is located *within the actual legal boundaries* of any city or town, check "YES" in item 2e and give the *official* name of the city or town in item 2f. (This name is *not necessarily* the same as the post office station name used for the mailing address of the establishment.)

If the establishment is *not* located within the *actual legal boundaries* of any city or town, check "NO" in item 2e and enter in item 2f the name of the township, borough, or similar civil subdivision of the county in which located. If the latter is not known, however, enter in item 2f the rural route or highway upon which the establishment is located and its distance and direction from the nearest city or town (for example, "State Highway No. 26, 10 miles northeast of York"). In the case of mobile operations such as logging or pulpwood operations, give the county in which the *major* activity was carried on.

**Item 3.** (See instructions on Form.)

**Item 4.** (See instructions on Form.)

**Item 5.** (See instructions on Form.)

**Item 6.** (See instructions on Form.)

**Item 7. Change in Status or Ownership of This Establishment Since December 31, 1953.**—If box "d" or box "e" is checked, the following additional information should be supplied in the "Remarks" section. If plant did not operate at any time in 1954 (box "d" has been checked), advise date operation is expected to resume. If "out of business" (box "e" has been checked), state the disposition of the plant, i. e., unoccupied, demolished, dismantled, etc.

**Item 8. Employment and Pay Rolls in 1954. Number of Employees in 1954.**

**Columns (A) through (D).**—Report employees at this establishment who worked or received pay for any part of the pay period (preferably 1 week) ended nearest the 15th of the months specified on the report form. *Include* all persons on paid sick leave, paid holidays, and paid vacation during these pay periods; *exclude* members of armed forces and pensioners carried on your active rolls. *Include* officers, if a corporation; *exclude* proprietor or partners, if an unincorporated concern. (You may follow the definition of employees specified by your State Employment Security Agency.) If employment in any one of these pay periods was abnormally low because of a strike or for some other reason, state the reason therefor and report employment for the nearest normal pay period in the "Remarks" section of the form.

**Columns (E) and (F).**—Add the four employment figures on each line and enter total in column (E); divide this total by FOUR and enter result in column (F), "Average Employment."

Classes of employees on lines 8a, 8b, and 8c are defined as follows:

**a. Production and related workers.**—Workers (up through the working foreman level) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping (but not delivering), maintenance, repair, janitorial, watchman services, product development, auxiliary production for plant's own use (e. g., power plant), record keeping, and other services closely associated with these production opera-



tions. *Exclude* supervisory employees above working foreman level.

b. *Force-account construction workers.*—Employees on your payroll who are engaged in construction of major additions or alterations to the plant and are utilized as a separate work force. (Workers engaged in regular maintenance and repair operations should be reported in item 8a, not here.)

c. *All other employees.*—Nonproduction personnel of this establishment, including those engaged in the following activities: factory supervision above working foreman level, sales (including driver salesmen), sales delivery (highway truck drivers and their helpers), advertising, credit, collection, installation and servicing of own products, clerical and routine office functions, executive, purchasing, finance, legal, personnel (including cafeteria, medical, etc.), professional, and technical.

**Column (G)—Total 1954 Payrolls—***(Total Wages, Salaries, Bonuses, Commissions, and Other Remuneration Paid in Entire Year 1954, Before Deductions.)*—Report the gross earnings paid in the calendar year 1954 to employees on the payroll of this establishment during 1954, including commissions, dismissal pay, all bonuses, vacation and sick leave pay, and compensation in kind, and prior to such deductions as employees' Social Security contributions, withholding taxes, group insurance, union dues, and savings bonds. *Include* salaries of officers at this establishment, if a corporation; *exclude* payments to proprietor or partners, if an unincorporated concern. *Exclude* payments to members of armed forces and pensioners carried on your active payroll. (You may fol-

low the definition of salaries and wages that is used for calculating the withholding tax.)

**Item 9. Total Number of Employees, by Month.**—*This inquiry will appear on the report forms only for selected industries where there is a significant seasonal pattern, or where an accurate annual employment average cannot be obtained from figures for four specified pay periods (i. e., where a significant difference exists between an employment average based on 4 monthly figures and an average based on 12 monthly figures).*

**Item 10. Man-Hours of Production and Related Workers, by Quarter.**—“Plant man-hours” of production and related workers (as defined in Item 8a) is designed to measure the over-all activity of the plant during each quarter. The requested figures consist of all man-hours worked or paid for, except hours paid for vacations, holidays or sick leave, when the employee was *not* at the plant. *Include* actual overtime hours, not straight-time equivalent hours. If employee elects to work during the vacation period, report only actual hours worked by such employee.

Each quarterly man-hours figure should be a total for the entire quarterly period (either calendar quarter or 13-week period). The “Total 1954” figure should account for *all* man-hours at the plant of production and related workers only for the entire year. Do *not* include man-hours for “force-account construction workers” or for “all other employees.” If a payroll period runs from one quarter into the next, distribute the man-hours between the two quarters.

## SPECIAL INSTRUCTIONS FOR ITEMS 11, 12, AND 17

**What To Include in These Items.**—Report total amounts of materials, supplies, semi-finished goods, fuels, etc., actually consumed or put into production during 1954 by your establishment. *This should include only physical goods and not services used or overhead.* Therefore, *exclude* such services as advertising, telephone, telegram and cable, insurance, developmental and research services provided by other establishments, services of engineering, management, marketing and other professional consultants, etc. *Exclude*, in addition, such overhead items as depreciation charges against plant and equipment, rent and rental allowances, interest payments, and royalties and use of patents fees.

In addition to items purchased from other companies, you should be sure to include materials, supplies, fuels, etc., received from other establishments of your company. The figures reported in Items 11a, 11c, 11d, 12, and 17 should cover materials, fuels, etc., which were: (1) put into production, (2) used as operating supplies, (3) used in repair and maintenance, and (4) owned by you but consumed by other companies to make products for your establishment. Products purchased and resold without further manufacture or processing should be included in Item 11b *only*. *Exclude* materials, supplies, machinery, and equipment which were used in the construction of new structures or additions to your plant or new machinery

and equipment, and which are chargeable to fixed assets accounts.

**Definition of Consumption.**—Include items received prior to 1954 if they were consumed during the year, but do not include items received in 1954 if they were not consumed. If your records do not show actual amounts consumed or put into production during the year, but purchases closely approximate consumption, purchase figures may be used in completing Items 11, 12, and 17. This applies especially to minor materials and supply items. If for any major item, however, consumption differs significantly from purchases, consumption should be computed from your records of purchases (receipts) and inventories of materials as follows: Add amounts received during the year to amounts on hand at the beginning of the year and from this total subtract amounts on hand at the end of the year. The resulting figure represents consumption during the year.

**Definition of Cost.**—“Cost” refers to direct charges actually paid or payable for items consumed or put into production during the year. For this reason, it should represent the cost after discounts, and should include freight charges and other direct charges incurred by the establishment in acquiring these materials.

The cost reported for materials, etc., received from other plants of your company or from a central materials

depot (whether at the same or different physical locations) should approximate the commercial values of these materials plus freight and other direct handling charges. Wherever possible, these figures should be checked with the values reported by the plant producing and transferring the goods and should exceed the shipment values reported for the producing plant only by the addition of freight or other direct handling charges involved.

**Item 11a. Materials, Parts, Containers, and Supplies Consumed During 1954.**—Report the total delivered cost of all raw materials, semi-finished goods, parts, components, containers, scrap, and supplies consumed or put into production during 1954 by this establishment. For semi-finished goods, parts, or components produced and later incorporated into finished products at the same plant, include the cost of raw materials used in their manufacture rather than the value of the intermediate products made.

Be sure to include the cost of all materials listed in Item 17 (if applicable) or listed as examples in Item 11a. In addition, include the cost of all parts, containers, and supplies shown in the list of examples below. Be sure to include the cost of any such listed items and *all other materials, parts, etc.*, actually consumed or put into production at this establishment in 1954. This list is shown only as an example rather than as a complete list of types of items which should be included.

#### Parts

Pumps.	Engines.
Wheels.	Gears.
Bearings.	Hardware.

#### Supplies

Bolts, screws, and nuts.  
Drills, tools, dies, jigs, and fixtures which are charged to current expense accounts.  
Welding rods, electrodes, and acetylene.  
Lubricating oils.  
Paint and varnish.  
Findings.  
Soap and cleaning supplies.  
Stationery, stamps, and office supplies.  
First aid and safety supplies.  
Dunnage.  
Purchased water or steam.

#### Containers

Pails.	Boxes and bags.
Drums and barrels.	Crates.
Tubes.	

**Item 11b. Cost of Products Bought and Resold Without Further Manufacture, Processing or Assembly in This Establishment During 1954.**—Give the cost of all products bought and resold in the *same* condition as when purchased and not made part of another product manufactured by this establishment. (Total invoice sales value of all products thus resold is to be reported in Item 18 on the line for "Resales.")

**Item 11c. Fuels Consumed During 1954.**—Report the total amount actually paid or payable during 1954 for all fuels consumed for heat, power, or the generation of electricity. Include anthracite and bituminous coal, coke, natural and manufactured gas, fuel oil, liquefied petroleum gas, purchased steam, and all other fuels.

**Item 11d. Electric Energy Purchased During 1954.**—Report the total amount actually paid or payable for electric energy purchased during 1954.

**Item 11e. Cost of Work Done for You by Others on Your Own Materials During 1954. (Contract Work.)**—If any work was done by others on materials furnished by your establishment, report the total 1954 payments made for such work, including freight out and in. *Exclude* the cost of materials worked on, which should be included in Item 11a (and in Item 17 if the latter appears on the report form).

**Item 12a. Fuels Consumed During 1954.**—(*This item is omitted from the report forms for establishments in selected Apparel and Printing and Publishing industries.*) Do not include fuels that were produced and used at this establishment for power or heat, for example, coke at coke ovens or fuel oil at petroleum refineries. Include in Item 17, fuel used as raw materials, for example, crude petroleum, coal used in making coke, and gas used in making carbon black.

**Item 12a, 3. Fuel Oil.**—Under "Distillate (light)" fuel oil include Grade Nos. 1 through 4 and P. S. 100 and 200. Under "Residual (heavy)" fuel oil include Grade Nos. 5 and 6 and P. S. 300 and 400. If nearly all of the fuel oil used was of one type, check only the principal type.

**Item 12b. Electric Energy During 1954.**—*Establishments in selected Apparel and Printing and Publishing industries will be required to report in this item only the number of kilowatt hours of electric energy purchased, (the cost of this energy being reported in Item 11d.)*

#### SPECIAL INSTRUCTIONS FOR CENTRAL POWERPLANTS SERVING TWO OR MORE ESTABLISHMENTS

If a central power plant is identified as a separate establishment for Census reporting purposes, it should be reported on the "Administrative Office and Auxiliary Establishments" Form NC-X6 and the supplemental power plant form, MC-D10. If such a separate report is made for the power plant, the reports for the manufacturing establishments should show all electric energy used under "Purchased" (including electric energy furnished by the central power plant).

If the central power plant is not reported as a separate

unit, all electric energy generated by this power plant should be shown on the report for the establishment to which the power plant is attached, or to which it furnishes the greater quantity of electric energy. All electric energy generated but not used at this manufacturing establishment (including transfers to other establishments of the same company) should be reported as electric energy sold. Such electric energy used by other establishments of your company should be shown in their reports as purchased electric energy.



**Item 13. Industrial Water Use During 1954.**—(See instructions on form.) *A selected group of establishments, consisting mainly of those consuming large quantities of water, will be required to supply the following additional detail on water consumed during 1954: total intake during the year distributed by type of use; quantity discharged; quantity recirculated; and quantity treated.*

**Item 14. Horsepower Rating of Power Equipment at End of 1954.**—Include all engines and turbines, such as internal combustion engines (Diesel, gas, gasoline, etc.), steam engines and turbines, hydroturbines, water wheels, and other prime movers. Include both owned and rented equipment for use at this establishment.

Report internal combustion engines and electric motors (1 hp. and over) in use, or available for use, at the plant, including those driving machinery, such as machine tools, compressors, presses, bottling machines, saws, hoists, etc. Include emergency or standby equipment and equipment temporarily idle because in need of repairs; exclude only junk. Both stationary and mobile equipment, except highway-type vehicles, should be included.

In reporting prime movers for electric generators, if the equipment is rated only on the generator, compute the horsepower rating (hp.) of the prime mover by multiplying the kilowatt rating (kw.) by 1.34. If more than one rating is shown on the name plate for an internal combustion engine, report the brake horsepower if available.

**Item 15. Inventories of This Establishment.**—(*This item is omitted from the report forms for the Printing and Publishing industries.*)

Where a company operates more than one establishment (i. e., plant, sales branch, retail stores, etc.) the inventories held by each establishment should be included in the establishment's Census report. The balance of the inventories owned by the company but not included in any of the establishment reports (for example, inventories in transit, in separate company or public warehouses, etc.) should be included in the "Administrative Office and Auxiliary Establishments" Form NC-X6. *Inventories should be reported at approximate current costs, if feasible; otherwise at book values.*

**Item 16. Capital Expenditures for This Establishment During 1954 (Exclude expenditures for land).**—Capital

expenditures cover: New structures and additions (including major alterations, capitalized repairs and improvements) to your plant (whether on contract or by your own forces); new machinery and new equipment; capitalized repairs and improvements to your existing machinery and equipment; and "used" plant and equipment acquired from others. Such expenditures during 1954 may be determined by the following computation: Additions completed during the year, *plus* construction-in-progress at the end of the year, *minus* construction-in-progress at the beginning of the year.

**Item 16a. New Structures and Additions to Plant.**—Report total expenditures during 1954 for new construction, major alterations, capitalized repairs, and improvements of buildings (including all new elevators, cranes, heating and ventilating equipment, essentially a part of the buildings), other fixed structures (such as blast furnaces, brick kilns, fractionating towers, shipways, and similar types of structures), and site improvements (such as roads, docks, tracks, parking lots, fences, utilities, etc.).

**Item 16b. New Machinery and New Equipment.**—Report total expenditures at this establishment for new production machinery and equipment and other new machinery and equipment. Include new machinery and equipment purchased for replacement purposes, as well as for additions to capacity. Include the value of improvements and capitalized repairs to machinery and equipment. Include all new motors, lathes, punch presses and similar machinery and equipment for use in production, as well as all new office machines and fixtures, furniture, cafeteria and dressing room furnishings, automobiles and trucks and other similar equipment.

**Item 16c. Expenditures for Used Plant and Used Equipment Acquired From Others.**—Report total expenditures at this establishment for old or existing plant and for second-hand equipment acquired from others (including the U. S. Government).

**Items 17, 18, 19, and 20.**—(See instructions on form. For Item 17, also see "Special Instructions for Items 11, 12, and 17" above.)



Form MC		U. S. DEPARTMENT OF COMMERCE—BUREAU OF THE CENSUS									
D2		1954 CENSUS OF MANUFACTURES									
GENERAL MANUFACTURES FORM		FORM MC-D2									
		FOR CENSUS USE ONLY									
State	SMA SEA	County	City size	T. E.	V. A.	Industry	C/O	Plant Spec'l			
ITEM 1 NAME OF ESTABLISH- MENT		Factory, plant, or mill covered by this report :									
ITEM 2 LOCATION OF ESTABLISH- MENT		<p>Give <b>actual physical location</b> of this establishment (which may differ from business mailing address).</p> <p>a. Street and Number _____</p> <p>b. City, town, or village _____</p> <p>c. County _____ d. State _____</p> <p>e. Is this establishment <b>within the actual legal boundaries of any city or town</b>? ..... <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>f. If "Yes," give <b>official</b> name of city or town (If same as Item 2-b, write "same"). _____</p> <p>If "No," enter in Item 2f the name of township, borough, or similar civil subdivision of county in which located. If latter is not known, enter <b>rural route or highway</b> upon which located; give <b>distance</b> and <b>direction</b> from nearest city or town.</p>									
ITEM 3 FED. SOCIAL SECURITY EMPLOYER IDENTIFICA- TION NUM- BER		<p>a. <b>Federal Social Security Employer Identification Number.</b> (Enter number as reported on Form 941, Item 10, on latest employer's quarterly tax return under Federal Insurance Contributions Act).....</p> <p>b. Number of separate places of business operated under this Employer Identification Number..... <input type="checkbox"/> One <input type="checkbox"/> Two or more.</p>									

**CONFIDENTIAL**—This report should be returned **within 30 days of its receipt**. This report is required by Act of Congress (13 U. S. C. 131). Your report is confidential and only sworn Census employees will have access to it. It cannot be used for purposes of taxation, investigation or regulation.

(Please correct any errors in name and address)

<b>ITEM 4</b> <b>COMPANY AFFILIATION</b>	a. Is this company (identified by the number given in Item 3-a) owned or controlled by another company? <input type="checkbox"/> Yes <input type="checkbox"/> No b. If "Yes," give name and address of owning or controlling company: _____ c. Does this company (identified by the number given in Item 3-a) own or control another company? <input type="checkbox"/> Yes <input type="checkbox"/> No	<b>ITEM 5</b> <b>FORM OF OWNERSHIP</b>	Check one: <input type="checkbox"/> Individual proprietor <input type="checkbox"/> Partnership (Specify number of working partners _____) <input type="checkbox"/> Corporation (Do not include any form of cooperative association) <input type="checkbox"/> Cooperative association (corporate or noncorporate producer-cooperatives and cooperative marketing associations) <input type="checkbox"/> Other (Specify) _____		
<b>ITEM 6</b> <b>NUMBER OF EMPLOYEES</b>	XXX3 BXXX4	March	May B5	August B7	November B8
<b>ITEM 7</b> <b>TOTAL 1954 PAYROLLS</b>	Total number of employees during the pay period ended nearest the 15th of the following months in 1954. (Exclude proprietor or partners, if an unincorporated concern. You may follow the definition of employees specified by your State Employment Security Agency.)				
<b>ITEM 8</b> <b>COST OF MATERIALS, FUELS, ELECTRICITY, ETC.</b>	Total 1954 payrolls: wages, salaries, bonuses, commissions and other remunerations paid in entire year 1954, before deductions. (Exclude payments to proprietor or partners, if an unincorporated firm. You may follow the definition of salaries and wages that is used for calculating the withholding tax.)	S1			Amount (Omit cents) \$ A4
<b>ITEM 9</b> <b>INVENTORIES OF THIS ESTABLISHMENT</b>	a. Cost of materials, parts, components, supplies, containers, fuel and electric energy consumed during 1954 b. Cost of products bought and resold without further manufacture, processing, or assembly in this establishment during 1954 c. Cost of work done for you by others on your own materials (contract work) during 1954				Cost (Omit cents) \$ S2 \$ S3
<b>ITEM 10</b> <b>CAPITAL EXPENDITURES DURING 1954</b>	(Report value of all inventories of this establishment, including finished products, work-in-process, materials, supplies, fuel, etc. Do not include goods held by you, but owned by others.) a. Beginning of 1954 inventories b. End of 1954 inventories				Value (Omit cents) \$ S4 \$ S5
AX6 S7	(Include expenditures which are chargeable to fixed assets accounts for which depreciation accounts are maintained; exclude used plant and equipment acquired from others.) Capital expenditures during 1954 for new construction, new machinery, and new equipment (include major alterations and capitalized repairs; exclude land)				Amount (Omit cents) \$ A8 \$ S6
	A7 S8	FOR CENSUS USE ONLY			A9

## Form MC-D2—General Manufactures Form

ITEM 11 NATURE OF ACTIVITY	Describe briefly the kind of activity of this establishment. Cover all activities, both manufacturing and nonmanufacturing. For manufactured products, indicate process of manufacture, materials, and types of products. Examples: "bake bread and rolls"; "bottle carbonated soft drinks"; "cut and sew ladies' dresses"; "manufacture millwork products and sell lumber"; "machine castings."					
ITEM 12 PRODUCTS AND SERVICES OF THIS ESTABLISH- MENT DURING 1954	Enter below on line 10 the <b>total</b> receipts from products shipped or services sold by this establishment during 1954. Account for <b>all</b> the receipts of this establishment. Examine the enclosed 1954 product class reference list and note the product classes you shipped in 1954. For each class, enter in Column (J) the code number on the reference list. Enter in Column (E) the 1954 value of shipments of such products made in this plant. On the same line, in Column (A), describe the products included in that class. (Do not include on a single line the value for products which are requested separately.)					
a. Products made in this establish- ment	K	Line No.	(C) (D)	1954 Value of shipments and receipts (f. o. b. plant; omit cents)	Product class code number (see 1954 product class reference list)	Can- not Use Only
		1		\$		99
		2		\$		99
		3		\$		99
		4		\$		99
		5		\$		99
		6		\$		99
		6a		\$		99
		6b		\$		99
b. Miscellaneous Receipts	Receipts for work done for others on their own materials ( <b>contract work</b> ). (Describe products worked on and kind of work):					
		7		\$	90000	99
c. Resales	Receipts for repair work, installation and construction of own products, and sale of scrap and refuse. Sales of products <b>bought and resold without further manufacture, processing, or assembly</b> in this establishment.					
		9	JX5	\$		
d. TOTAL (Sum of lines 1-9)		10	J6	\$ -		



		J7		J8	
<b>ITEM 13</b> <b>CHECKS TO</b> <b>ASSURE A</b> <b>COMPLETE</b> <b>AND</b> <b>ACCURATE</b> <b>REPORT</b>		The Census Bureau reviews your report for omissions, inconsistencies, and unusual ratios. To save you future correspondence about these problems, please make the following checks <b>before</b> returning your report: (1) Review the report carefully to see that no items are omitted. (2) Copy the figures requested in Columns I and II below; analyze your results in Column III below. (3) Correct your report for any errors you find; explain unusual figures in "Remarks" section.			
		<b>Column I</b> Copy in Column I the figures reported in— Item 7 (Total 1954 payrolls).....\$	<b>Column II</b> Copy in Column II the figures reported in— Item 12d, Col. (E) (Value of shipments).....\$	Divide Column I by Column II; show result in Column III Payrolls per dollar of shipments.....¢	<b>Column III</b>
		Item 8a plus 8b plus 8c (Total cost of materials, etc.)...\$	Item 12d, Col. (E) (Value of shipments).....\$	Materials cost per dollar of shipments.....¢	
<b>Remarks</b>					
<b>ITEM 14</b>		Name and address of person who should be contacted if questions arise regarding this report			Telephone No.
<b>ITEM 15</b> <b>CERTIFICATION</b>		This report is substantially accurate and covers the period from ..... to ..... <div style="display: flex; justify-content: space-between;"> <span>..... Date</span> <span>..... Title</span> </div>			



Card G

GEOGRAPHIC CODES												1954		PLANT IDENTIFICATION		FIELD 1		FIELD 2		FIELD 3		FIELD 4		FIELD 5		FIELD 6		FIELD 7		FIELD 8		EXCESS																																															
												INDUSTRY				VALUE OF SHIPMENTS (NET) (000)		VALUE ADDED BY MFR (000)		TOTAL NEW EXPENDITURES (000)		WATER CODE		NEW PLANT (000)		NEW EQUIP. (000)		USED (000)		TOTAL (000)																																																	
												(H)		(K)		(1)		(2)		(3)		(4)		(5)		(6)		(7)																																																			
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Card H

GEOGRAPHIC CODES												1954		PLANT IDENTIFICATION		FIELD 1		FIELD 2		FIELD 3		FIELD 4		FIELD 5		FIELD 6		FIELD 7		FIELD 8		EXCESS																																															
												INDUSTRY				MATERIALS		QUANTITY		COST		MATERIALS CONSUMED		MULTIPLE USE COLUMNS																																																							
												(H)		(K)		(1)		(2)		(3)		(4)		(5)		(6)		(7)																																																			
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Card J

GEOGRAPHIC CODES												1954		PLANT IDENTIFICATION		FIELD 1		FIELD 2		FIELD 3		FIELD 4		FIELD 5		FIELD 6		FIELD 7		FIELD 8		EXCESS																																															
												INDUSTRY				MISCELLANEOUS RECEIPTS		RECEIPTS		INSTALLATION		RECEIPTS		RECEIPTS		RECEIPTS		RECEIPTS																																																			
												(H)		(K)		(1)		(2)		(3)		(4)		(5)		(6)		(7)																																																			
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Card K

GEOGRAPHIC CODES												1954		PLANT IDENTIFICATION		FIELD 1		FIELD 2		FIELD 3		FIELD 4		FIELD 5		FIELD 6		FIELD 7		FIELD 8		EXCESS																																															
												INDUSTRY				QUANTITY OF		QUANTITY OF		TOTAL VALUE		MULTIPLE USE COLUMNS		PRODUCT		PRODUCT																																																					
												(H)		(K)		(1)		(2)		(3)		(4)		(5)		(6)		(7)																																																			
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Card L

GEOGRAPHIC CODES												1954		PLANT IDENTIFICATION		FIELD 1		FIELD 2		FIELD 3		FIELD 4		FIELD 5		FIELD 6		FIELD 7		FIELD 8		FIELD 9		FIELD 10		FIELD 11		FIELD 12		EXCESS																																							
												INDUSTRY				TOTAL EMPLOYMENT		TOTAL EMPLOYMENT		TOTAL EMPLOYMENT		TOTAL EMPLOYMENT		TOTAL EMPLOYMENT		TOTAL EMPLOYMENT		TOTAL EMPLOYMENT		TOTAL EMPLOYMENT		TOTAL EMPLOYMENT																																															
												(H)		(K)		(1)		(2)		(3)		(4)		(5)		(6)		(7)		(8)		(9)		(10)																																													
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Card M

GEOGRAPHIC CODES												1954		PLANT IDENTIFICATION		FIELD 1		FIELD 2		FIELD 3		FIELD 4		FIELD 5		FIELD 6		FIELD 7		FIELD 8		FIELD 9		FIELD 10		FIELD 11		FIELD 12		EXCESS																																							
												INDUSTRY				FOUNDRY		DIE CASTING		FORDING		PRESSING		ELECTRO		CALVARY		TREATING		SCREW		MACHINE		TOOL AND		PATTERN		PLATE		STAMPING																																							
												(H)		(K)		(1)		(2)		(3)		(4)		(5)		(6)		(7)		(8)		(9)		(10)		(11)		(12)																																									
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## Appendix D

### PROVISIONS OF LAW RELATING TO 1954 CENSUS OF MANUFACTURES

(From Title 13 United States Code)

SECTION 131. The Secretary shall take, compile, and publish censuses of manufactures, of mineral industries, and of other businesses, including the distributive trades, service establishments, and transportation (exclusive of means of transportation for which statistics are required by law to be filed with, and are compiled and published by, a designated regulatory body), in the year 1954 and every fifth year thereafter, and each such census shall relate to the year immediately preceding the taking thereof: Provided, That the censuses of manufactures, of mineral industries, and of other businesses, including the distributive trades and service establishments, directed to be taken in the year 1954 relating to the year 1953, shall be taken instead in the year 1955 relating to year 1954. The censuses provided for in this section shall include the United States and its Territories and such Possessions as the Secretary may determine.

SECTION 224. Whoever, being the owner, official, agent, person in charge, or assistant to the person in charge, of any company, business, institution, establishment, religious body, or organization of any nature whatsoever, neglects or refuses, when requested by the Secretary or other authorized officer or employee of the Department of Commerce or bureau or agency thereof, whether such request be made by registered mail, by telegraph, by visiting representative, or by one or more of these methods, to answer completely and correctly to the best of his knowledge

all questions relating to his company, business, institution, establishment, religious body, or other organization, or to records or statistics in his official custody, contained on any census or other schedule prepared and submitted to him under the authority of this title, shall be fined not more than \$500 or imprisoned not more than sixty days, or both; and if he willfully gives a false answer to any such question, he shall be fined not more than \$10,000 or imprisoned not more than one year, or both.

SECTION 9. (a) Neither the Secretary, nor any other officer or employee of the Department of Commerce or bureau or agency thereof, may . . .

(1) use the information furnished under the provisions of this title for any purpose other than the statistical purposes for which it is supplied; or

(2) make any publication whereby the data furnished by any particular establishment or individual under this title can be identified; or

(3) permit anyone other than the sworn officers and employees of the Department or bureau or agency thereof to examine the individual reports.

App. D-1







## List of Corrections

This volume has been prepared primarily by assembling and binding the statistical portions of previously issued State Bulletins. This publication plan was adopted to reduce publication costs and expedite

the issuance of the volume. The corrections appearing below represent changes which would ordinarily have been made if the volume had been prepared by reprinting the contents of the bulletins.

Page no.	Table	Item	Columns	Change	
				From--	To--
101-3	3	Alabama:	3		
101-5	4	Calhoun County.....	3	...	12,322
		Industry 223, Broad woven goods.....		23,978	28,978
102-4	4	Arizona:	7		
		Industry group 37, Transportation equipment.....		25,457	24,457
104-4	3	California:	10	(NA)	1,787
		Napa County.....	11	(NA)	12,028
104-9	4	Industry 2899, Chemical products, n.e.c.....	11	1,047	974
			12	9,541	8,839
104-11	4	Industry group 369, Electrical products, n.e.c.....	11	1,320	1,396
			12	10,460	10,708
		Industry 3699, Communication equipment.....	11	72	148
109-4	3	Florida:	4		
		Orange County.....		1,445	14,451
112-9	4	Illinois:	11		
		Industry group 28, Chemicals and products.....	12	47,537	45,063
				438,305	420,697
		Industry group 282, Organic chemicals.....	11	5,827	3,628
			12	42,553	27,961
		Industry 2894, Glue and gelatin.....	11	1,073	1,422
			12	7,984	11,353
		Industry 2899, Chemical products, n.e.c.....	11	3,337	2,713
			12	32,306	25,921
		Industry group 299, Petroleum and coal products, n.e.c.....	11	696	971
			12	9,316	12,332
112-12	4	Industry 3631, Insulated wire and cable.....	11	Not published	1,712
113-8	4	Indiana:	11		
		Industry 2899, Chemical products, n.e.c.....	12	314	174
				2,125	1,184
		Industry group 293, Coke and byproducts; and Industry 2932, Byproduct coke ovens....	11	3,846	3,120
			12	30,981	27,600
117-6	4	Louisiana:	10		
		All industries, total.....		196,819	174,396
		Industry group 25, Furniture and fixtures.....	10	22,633	210
		Industry group 251, Household furniture.....	10	22,606	181
		Industry 2511, Wood furniture, not upholstered.....	10	22,491	68
120-6	4	Massachusetts:	12		
		Industry group 221, Woolen and worsted manufacture.....		Not published	227,481
		Industry group 222, Yarn and thread mills.....	11	8,016	10,689
			12	30,982	40,865
120-8	4	Industry 2899, Chemical products, n.e.c.....	11	2,517	1,991
			12	16,027	11,984
		Industry group 29, Petroleum and coal products.....	11	2,540	1,588
			12	26,155	20,268
121-4	3	Michigan:	4		
		Genesee County.....	6	Not published	387,681
			7	Not published	137,996
			8	Not published	316,466
			9	Not published	713,846
				Not published	149,069
121-9	4	Industry 2992, Lubricants, n.e.c.....	11	172	204
121-10	4	Industry group 369, Electrical products, n.e.c.....	11	113	126
			12	513	547
123-6	4	Mississippi:	3		
		Industry group 283, Drugs and medicines.....		401	634
		Industry 2834, Pharmaceutical preparations.....	3	401	634
124-2	1	Missouri:	4		
		1950.....		1,103,357	1,003,357
124-3	2	1950.....	3	1,103,357	1,003,357
124-9	4	Industry 2899, Chemical products, n.e.c.....	11	784	692
			12	6,253	5,821
		Industry group 29, Petroleum and coal products.....	11	2,459	2,144
			12	14,095	12,364
125-4	3	Montana:	2-11		
		Golden Valley County.....		Not published	...
		Petroleum County.....	2-11	Not published	...

## LIST OF CORRECTIONS

Page no.	Table	Item	Columns	Change	
				From--	To--
129-4	3	New Jersey: Name corrections for Cities with 10,000 inhabitants or more.....	Stub	Ampere Athenia Bergen Point East Camden Highwood Journal Square Netherwood Parlin	East Orange Clifton Bayonne Camden Englewood Jersey City Plainfield Sayreville
129-8	4	Industry group 289, Chemical products, n.e.c.....	11	11,062	9,990
		Industry 2894, Glue and gelatin.....	12	124,874	119,519
		Industry 2899, Chemical products, n.e.c.....	11	550	883
			11	2,521	1,116
			12	19,034	11,142
129-10	4	Industry 3631, Insulated wire and cable.....	11	5,259	4,741
			12	28,851	26,712
		Industry 3699, Communication equipment, n.e.c.....	11	545	1,063
			12	2,906	5,045
130-5	4	New Mexico: Industry group 23: From: Food preparations, n.e.c. To: Apparel and related products			
131-6	3	New York: Cities with 10,000 or more inhabitants: Albany.....	1 2 3 4 5 6 7 8 9 10 11	Omission Omission Omission Omission Omission Omission Omission Omission Omission Omission Omission	134,995 194 9,715 39,537 7,113 14,140 25,809 69,817 3,373 8,629 50,947
		City name correction.....	Stub	Birmingham	Binghamton
131-11	4	Industry group 289, Chemical products, n.e.c.....	11 12	15,714 119,624	15,582 118,424
		Industry 2894, Glue and gelatin.....	11 12	682 6,818	1,345 11,460
		Industry 2899, Chemical products, n.e.c.....	11 12	3,366 34,590	2,571 28,748
		Industry group 29, Petroleum and coal products.....	11 12	7,576 59,594	5,999 48,932
		Industry 2992, Lubricants, n.e.c.....	11 12	250 944	382 2,144
131-12	4	Industry 3463, Metal stampings.....	10	2,700	3,824
131-13	4	Industry 3631, Insulated wire and cable.....	11 12	3,934 19,656	3,668 18,470
		Industry group 369, Electrical products, n.e.c.....	11 12	4,197 27,105	4,463 28,291
		Industry 3699, Electrical products, n.e.c.....	11 12	1,998 10,383	2,264 11,569
132-5	3	North Carolina: County name correction.....	Stub	Raleigh	Wake
133-4	3	North Dakota: Fargo.....	10 11	1,692 8,198	1,154 5,757
134-5	3	Ohio: Production workers, man-hours.....	Box head	(\$1,000)	(1,000)
134-6	3				
134-7	3				
134-10	4	Industry 2899, Chemical products, n.e.c.....	11 12	1,732 20,009	1,602 19,153
135-3	2	Oklahoma: 1950.....	3	187,657	163,185
135-6	4	Industry 2515, Mattresses and bedsprings.....	1	2	22
135-11	7	County name correction.....	Stub	Pillsburg	Pittsburg
136-3	2	Oregon: Portland Standard Metropolitan Area.....	5 6	144,819 386,989	172,036 475,021
137-10	4	Pennsylvania: Industry group 289, Chemical products, n.e.c.....	11 12	4,597 33,902	4,398 31,978
		Industry 2894, Glue and gelatin.....	11	415	667
		Industry 2899, Chemical products, n.e.c.....	11 12	1,733 11,863	1,282 7,899

## LIST OF CORRECTIONS

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				From--	To--
137-10	4	Pennsylvania--Continued:			
		Industry group 293, Coke and byproducts.....	11	10,913	10,345
			12	82,118	79,315
		Industry 2932, Byproduct coke ovens.....	11	8,469	7,901
			12	63,616	60,813
		Industry group 299, Petroleum and coal products, n.e.c.....	11	1,432	1,651
137-13	4		12	11,351	13,275
		Industry 3631, Insulated wire and cable.....	11	1,023	958
			12	4,654	4,317
138-4	3	Rhode Island:			
		Cities with 10,000 inhabitants or more.....	Stub	Apponaug	Warwick
142-11	4	Texas:			
		Industry 2992, Lubricants, n.e.c.....	11	62	107
144-7	7	Vermont:			
		County name correction.....	Stub	California	Caledonia
148-7	4	Wisconsin:			
		Industry 2899, Chemical products, n.e.c.....	11	516	455
			12	6,378	5,962

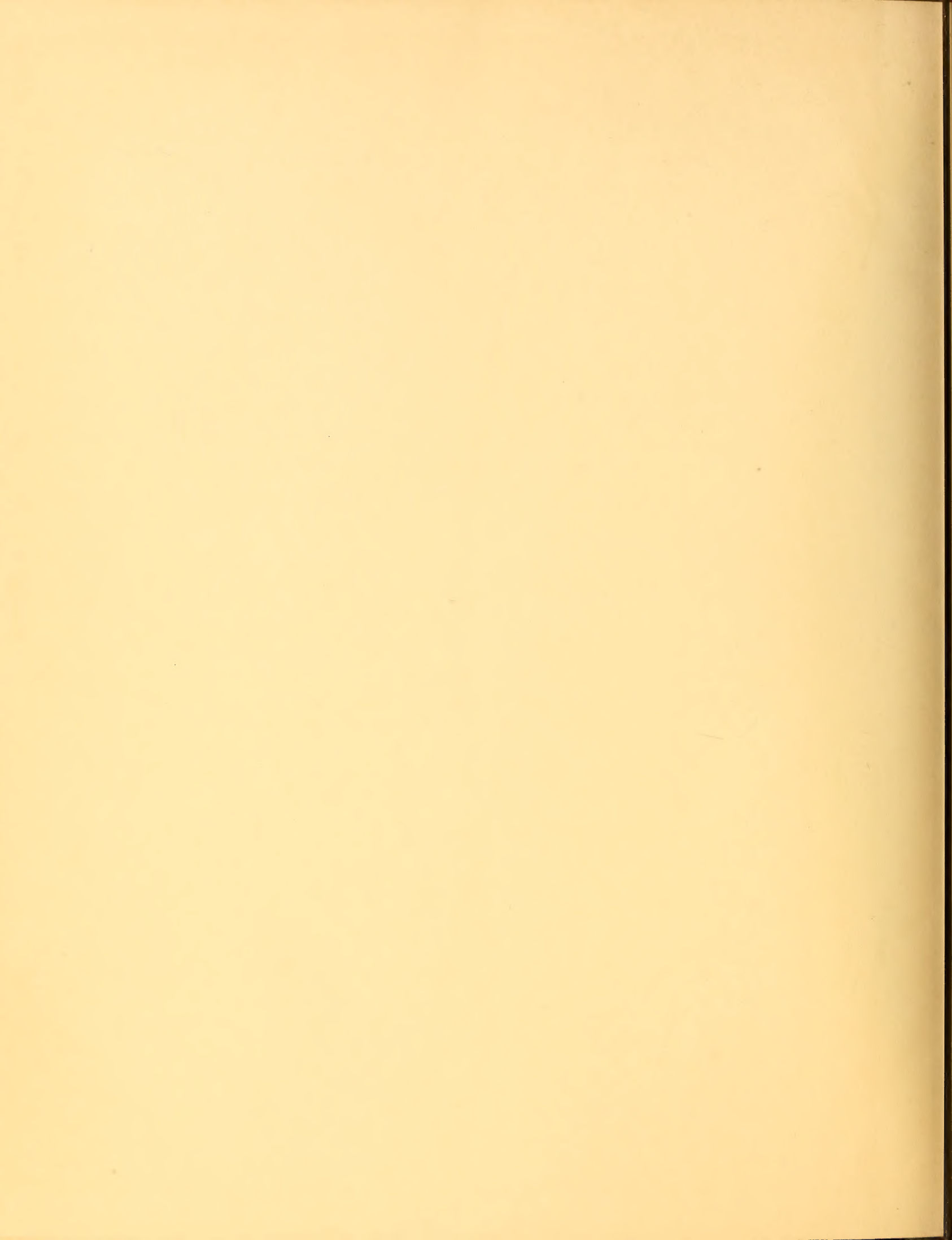
In addition to the corrections listed above the following pages were reprinted:

110-2, 110-3, 110-4, 110-6, 116-2, 116-3, 116-4, 119-3, 119-4, and 119-5















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